U. S. Geological Survey Streamgaging Program

Athena P. Clark, P.E., Deputy Director
Hydrologic Data Programs
Lower Mississippi – Gulf Water Science Center

How Streamflow is Measured

- Part 1 – Measuring stream stage

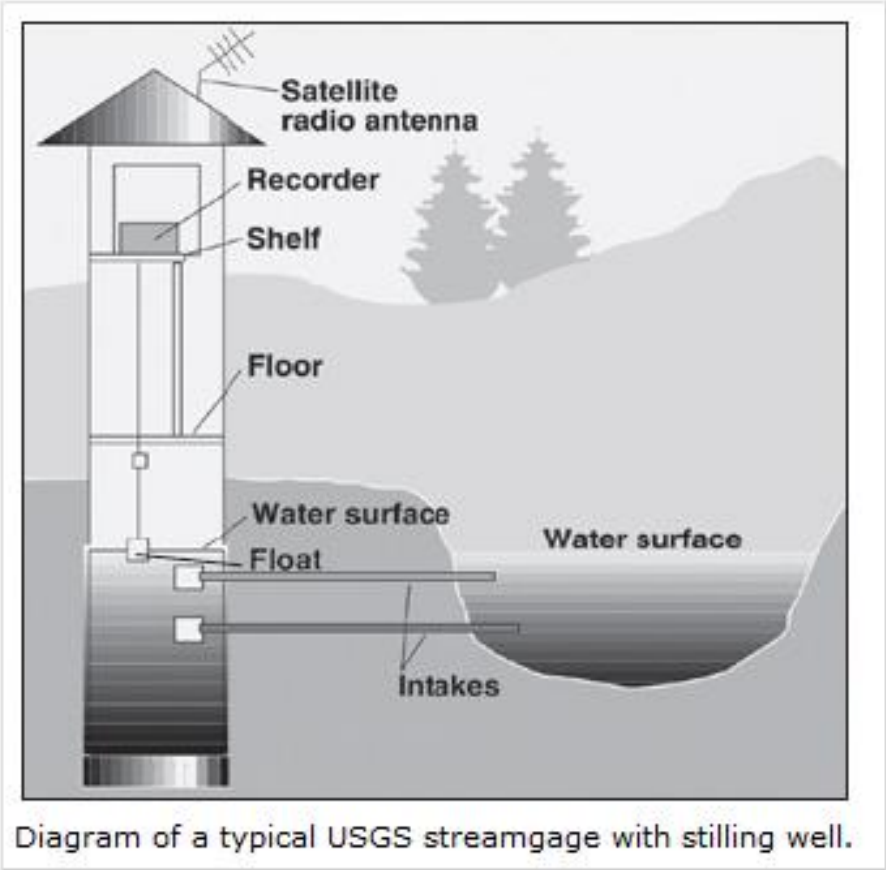


Diagram of a typical USGS streamgage with stilling well.

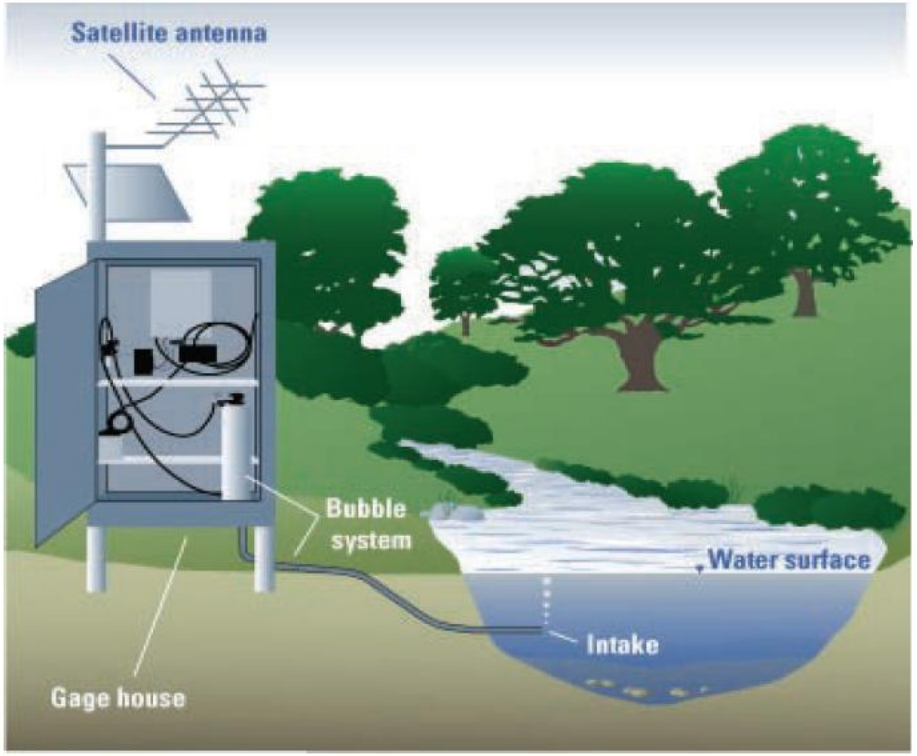
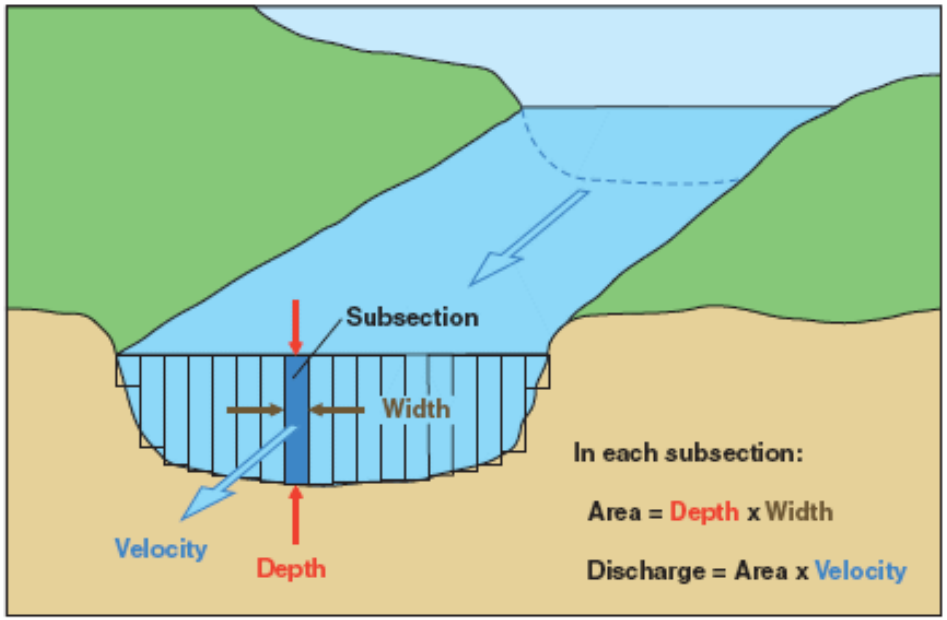


Figure 2. Diagram of a typical streamgage installation with equipment used to measure stream stage (by L.S. Coplin, U.S. Geological Survey).

How Streamflow is Measured

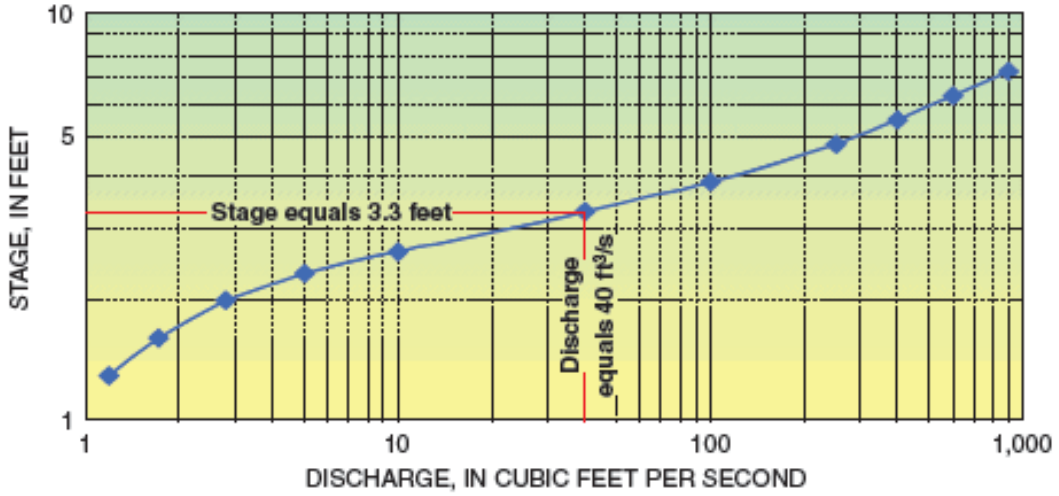
- Part 2 – Discharge Measurement



Current-meter discharge measurements are made by determining the discharge in each subsection of a channel cross section and summing the subsection discharges to obtain a total discharge.

How Streamflow is Measured

- Part 3 – Stage-discharge relation



Example of a typical stage-discharge relation; here, the discharge of the river is 40 cubic feet per second (ft^3/s) when the stage is 3.30 feet (ft). The dots on the curve represent concurrent measurement of stage and discharge.

USGS 02420490 AUTAUGA CREEK NEAR PRATTVILLE

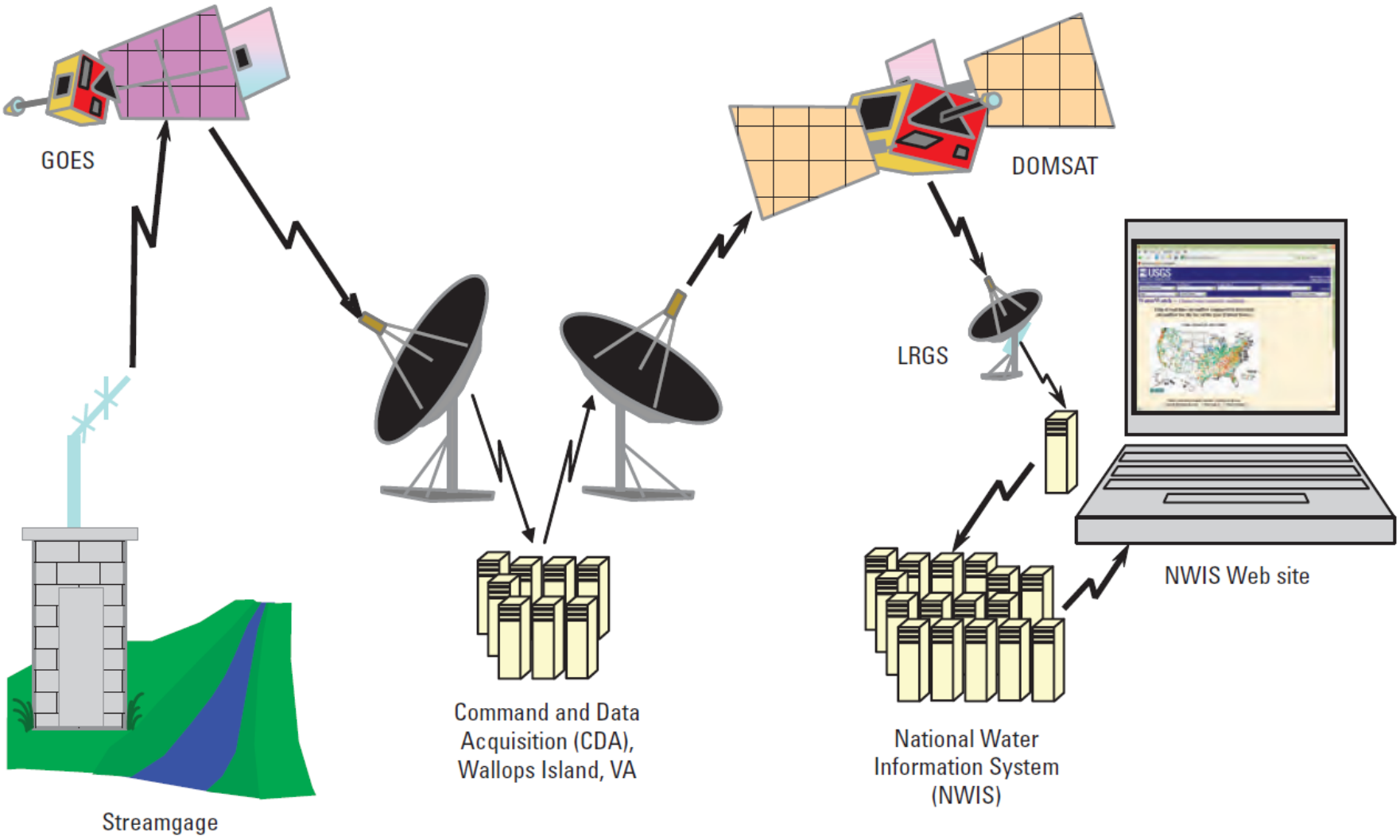
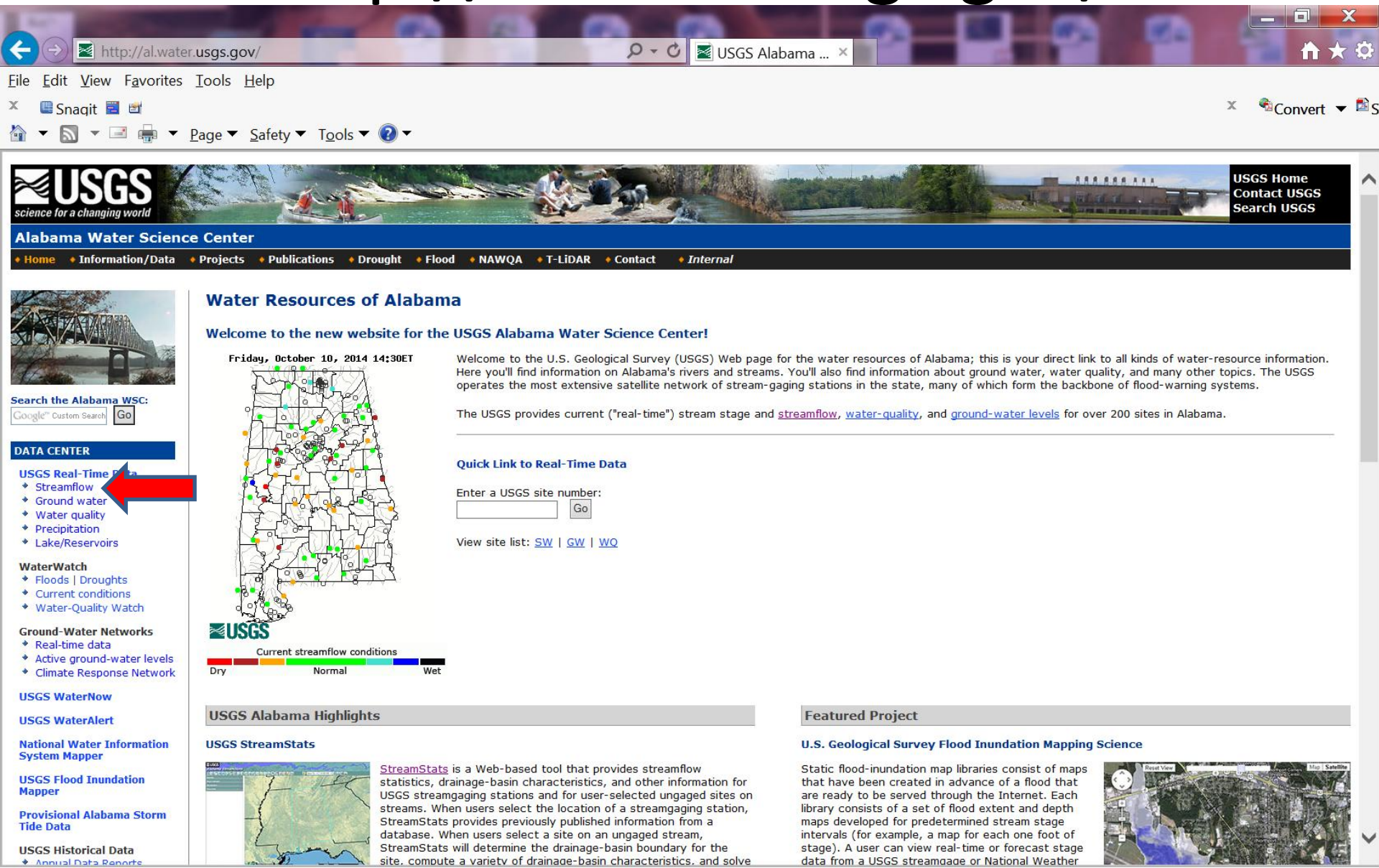


Figure 7. Streamflow information from the river to the user passes through numerous satellite and computer systems during a 10-minute period.

http://al.water.usgs.gov/



National Water Information System: Web Interface

USGS Water Resources (District Access)

Data Category: Current Conditions

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Current Conditions for Alabama: Streamflow -- 182 site(s) found

PROVISIONAL DATA SUBJECT TO REVISION

--- Predefined displays ---: Alabama Streamflow Table

Group table by: -- no grouping -- / Major River Basin / County / Hydrologic Unit

Select sites by number or name: go | show sites on a map

Customize table to display other current-condition parameters

Station Number	Station name	Date/Time	Gage height, feet	Dis-charge, ft3/s	Long-term median flow 10/10
Alabama					
02339495	OSELIGEE CREEK NEAR LANETT AL	10/10 12:45 CDT	2.60	10	1.20
02342500	UCHEE CREEK NEAR FORT MITCHELL, AL.	10/10 13:00 CDT	0.45	13	52.0
0234296910	CHATTAHOOCHEE RIVER AT COAST GUARD DOCK AT EUFAULA	10/10 12:00 CDT	187.62	--	---
023432415	CHATTAHOOCHEE R .36 MI DS WFG DAM NR FT GAINES, GA	10/10 14:30 EDT	103.09	682	4,940
02361000	CHOCTAWHATCHEE RIVER NEAR NEWTON, AL.	10/10 13:00 CDT	3.72	189	281
02361500	CHOCTAWHATCHEE RIVER NEAR BELLWOOD AL	10/10 12:45 CDT	4.15	576	612
02362000	CHOCTAWHATCHEE RIVER NEAR GENEVA, ALABAMA	10/10 12:00 CDT	3.38	--	---

National Water Information System: Web Interface

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Data Cat
Current

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Current Conditions for Alabama: Streamflow -- 182 site(s) found

PROVISIONAL DATA SUBJECT TO REVISION

--- Predefined displays --- Alabama Streamflow Table | Group table by County | Select sites by number or name | go | show sites on a map

Customize table to display other current-condition parameters

Station Number	Station name	Date/Time	Gage height, feet	Dis-charge, ft3/s	Long-term median flow 10/10
Autauga County					
02420490	AUTAUGA CREEK NEAR PRATTVILLE, ALA	10/10 13:15 CDT	5.67	--	---
02421350	ALABAMA RIVER AT JONES BLUFF, AL	10/10 13:00 CDT	125.18	--	---
Baldwin County					
02376500	PERDIDO RIVER AT BARRINEAU PARK, FL	10/10 12:00 CDT	1.43	246	379
02377560	STYX R NR LOXLEY, AT SMITHS SIDING, ALA	10/10 13:15 CDT	3.53	--	---
02377570	STYX RIVER NEAR ELSANOR, AL.	10/10 13:00 CDT	1.67	178	166
02377750	STYX RIVER AT SEMINOLE, ALA	10/10 12:30 CDT	8.79	--	---
02378170	WOLF CREEK BELOW FOLEY, ALA	10/10 13:30 CDT	7.07	8.1	6.20
02378300	MAGNOLIA RIVER AT US 98 NEAR FOLEY, ALABAMA	10/10 13:30 CDT	3.25	23	20.0
02378500	FISH RIVER NEAR SILVER HILL AL	10/10 13:30 CDT	1.48	72	78.0
Barbour County					
0234296910	CHATTAHOOCHEE RIVER AT COAST GUARD DOCK AT EUFAULA	10/10 12:00 CDT	187.62	--	---
Bibb County					
02424000	CAHABA RIVER AT CENTREVILLE AL	10/10 13:00 CDT	0.76	216	305
Blount County					
02449882	BLUE SPRINGS CREEK NEAR BLOUNTSVILLE, AL.	10/10 13:15 CDT	1.33	0.47	1.70
02450000	MULBERRY FORK NEAR GARDEN CITY, AL.	10/10 13:15 CDT	2.83	23	37.0
02455000	LOCUST FORK NEAR CLEVELAND, AL.	10/10 13:15 CDT	1.07	14	32.0
02455185	BLACKBURN FORK LITTLE WARRIOR R NR HOLLY SPRINGS	10/10 13:15 CDT	0.66	1.3	6.60
Calhoun County					

02471019	TENSAW RIVER NR MOUNT VERNON, ALA	10/10 12:30 CDT	--	14,400	7,760
02471078	FOWL RIVER AT HALF-MILE RD NEAR LAURENDINE, AL.	10/10 13:00 CDT	2.18	18	25.0
02479945	BIG CREEK AT COUNTY RD 63 NEAR WILMER, AL.	10/10 13:00 CDT	2.20	25	28.0
02479980	CROOKED CREEK NEAR FAIRVIEW, AL.	10/10 12:30 CDT	0.12	10	9.70
02480002	HAMILTON CREEK AT SNOW ROAD NEAR SEMMES, AL.	10/10 13:30 CDT	0.38	30	14.0
Monroe County					
02428400	ALABAMA RIVER AT CLAIBORNE L&D NEAR MONROEVILLE	10/10 13:00 CDT	34.04	--	---
		10/10 12:00 CDT	--	3,740	8,410
02428401	ALABAMA RIVER BEL CLAIB. L&D NR MONROEVILLE, AL.	10/10 13:00 CDT	6.94	--	---
Montgomery County					
02419890	TALLAPOOSA RIVER NEAR MONT.-MONT. WATER WORKS	10/10 13:00 CDT	5.65	3,350	2,930
02419988	ALABAMA RIVER AT MONTGOMERY AL	10/10 13:00 CDT	21.88	--	---
02420000	ALABAMA RIVER NEAR MONTGOMERY, AL.	10/10 12:30 CDT	27.49	5,470	9,100
02421000	CATOMA CREEK NEAR MONTGOMERY AL	10/10 13:00 CDT	1.43	0.77	4.10
Morgan County					
03576500	FLINT CREEK NEAR FALKVILLE AL	10/10 13:30 CDT	3.32	12	4.70
03577150	TENNESSEE RIVER AT DECATUR AL	10/10 12:30 CDT	5.07	--	---
Perry County					
02424590	CAHABA RIVER NEAR SUTTLE, AL.	10/10 13:00 CDT	4.86	--	---
Pickens County					
02444160	TOMBIGBEE RIVER AT BEVILL L&D NR PICKENSVILLE, AL	10/10 12:00 CDT	136.41	--	---
		10/10 10:00 CDT	--	711	1,290
02444161	TOMBIGBEE RIVER BEL BEVIL L&D NR PICKENSVILLE, AL.	10/10 12:00 CDT	109.54	--	---
Randolph County					
02413300	LITTLE TALLAPOOSA RIVER NEAR NEWELL AL	10/10 12:30 CDT	1.69	52	155
02414500	TALLAPOOSA RIVER AT WADLEY AL	10/10 11:00 CDT	4.24	1,490	331
Russell County					
02342500	UCHEE CREEK NEAR FORT MITCHELL, AL.	10/10 13:00 CDT	0.45	13	52.0
St Clair County					
02401390	BIG CANOE CREEK AT ASHVILLE AL	10/10 12:30 CDT	1.42	20	30.0
02423160	CAHABA RIVER NEAR WHITES CHAPEL AL	10/10 13:15 CDT	1.00	6.9	15.0
Shelby County					
02405500	KELLY CREEK NEAR VINCENT AL	10/10 12:30 CDT	1.88	***	20.0
02407000	COOSA RIVER AT CHILDERSBURG AL	10/10 12:45 CDT	13.95	1,770	4,280
02407514	YELLOWLEAF CREEK NEAR WESTOVER, ALA.	10/10 13:00 CDT	2.41	4.5	15.0
02407526	COOSA RIVER AT GASTON STEAM PLANT NR WILSONVILLE	10/10 12:30 CDT	13.51	--	---
02423414	LITTLE CAHABA RIVER AT CAH BEA RD NR CAHABA HTS AL	10/10 13:15 CDT	1.33	67	57.0
02423425	CAHABA RIVER NEAR CAHABA HEIGHTS AL	10/10 13:30 CDT	1.50	18	14.0
0242354750	CAHABA VALLEY CREEK AT CROSS CR RD AT PELHAM, AL	10/10 13:15 CDT	2.32	8.3	9.80

USGS science for a changing world

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USGS 02421000 CATOMA CREEK NEAR MONTGOMERY AL

PROVISIONAL DATA SUBJECT TO REVISION

Available data for this site Time-series: Current/Historical Observations GO

Click to hide station-specific text

THIS STATION IS OPERATED IN COOPERATION WITH THE U.S. ARMY CORPS OF ENGINEERS/

U.S.Army Corps of Engineers

This station managed by the Montgomery Field Office.

This station managed by the Montgomery Field Office.

Available Parameters	Available Period
All 2 Available Parameters for this site	
00060 Discharge	2007-10-01 2014-10-14
00065 Gage height	2007-10-01 2014-10-14

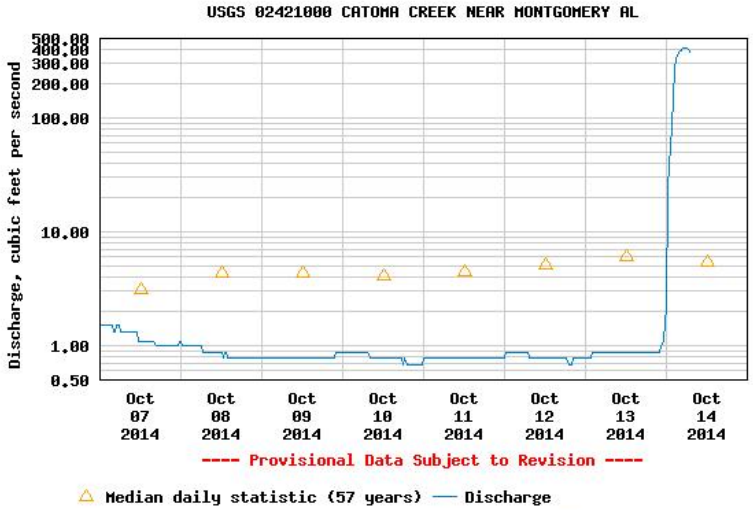
Output format
- (•) Graph
- ( ) Graph w/ stats
- ( ) Graph w/o stats
- ( ) Graph w/ (up to 3) parms
- ( ) Table
- ( ) Tab-separated

Days (7)
-- or --
Begin date 2014-10-07
End date 2014-10-14

[Summary of all available data for this site]
[Instantaneous-data availability statement]

Discharge, cubic feet per second

Most recent instantaneous value: 380 10-14-2014 07:00 CDT



Create presentation-quality / stand-alone graph. Subscribe to WaterAlert P00060 DD01 A(0)

Add up to 2 more sites and replot for "Discharge, cubic feet per second"

Add site numbers Note

Enter up to 2 site numbers separated by a comma. A site number consists of 8 to 15 digits

GO

Daily discharge, cubic feet per second -- statistics for Oct 14
based on 57 years of record more

Min (1955)	25th percen-tile	Median	75th percen-tile	Mean	Most Recent Instantaneous Value Oct 14	Max (2010)
0.00	1.1	5.4	20	33	380	695

Gage height, feet

Most recent instantaneous value: 3.90 10-14-2014 07:00 CDT

Add up to 2 more sites and replot for "Gage height, feet"

Add site numbers Note

Enter up to 2 site numbers separated by a comma. A site number consists of 8 to 15 digits

GO

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Share this graph |

Questions about sites/data?
Feedback on this web site
Automated retrievals
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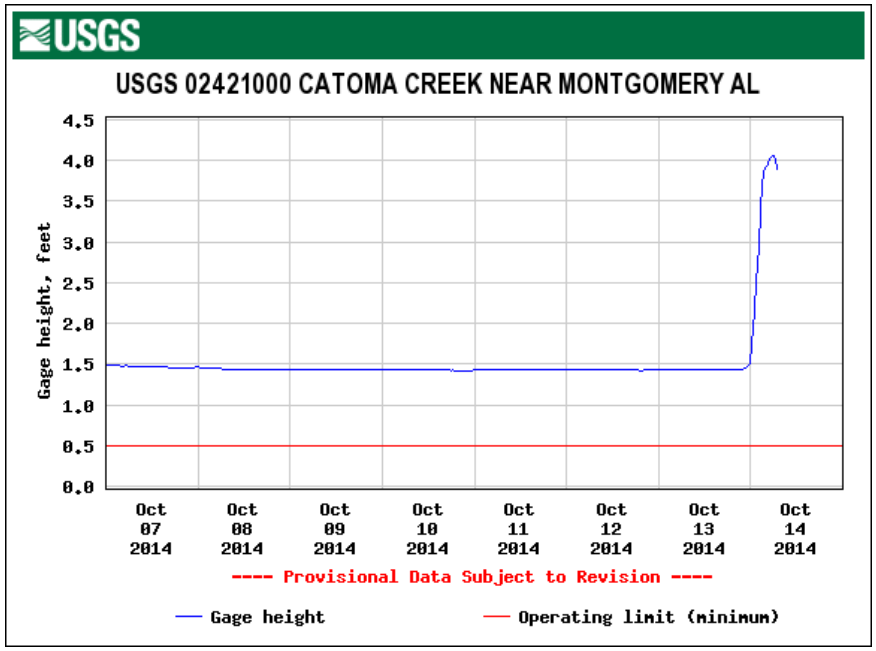
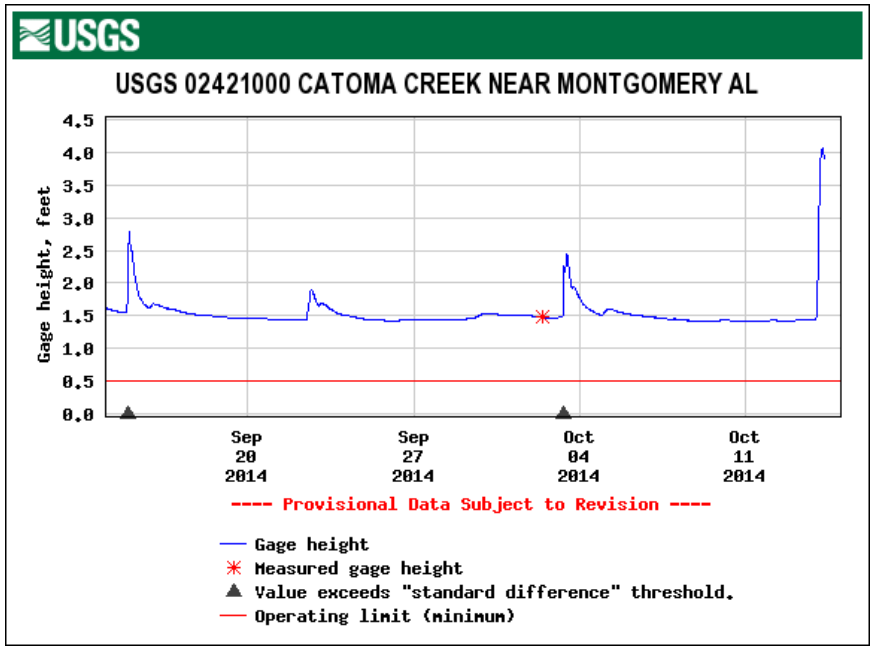
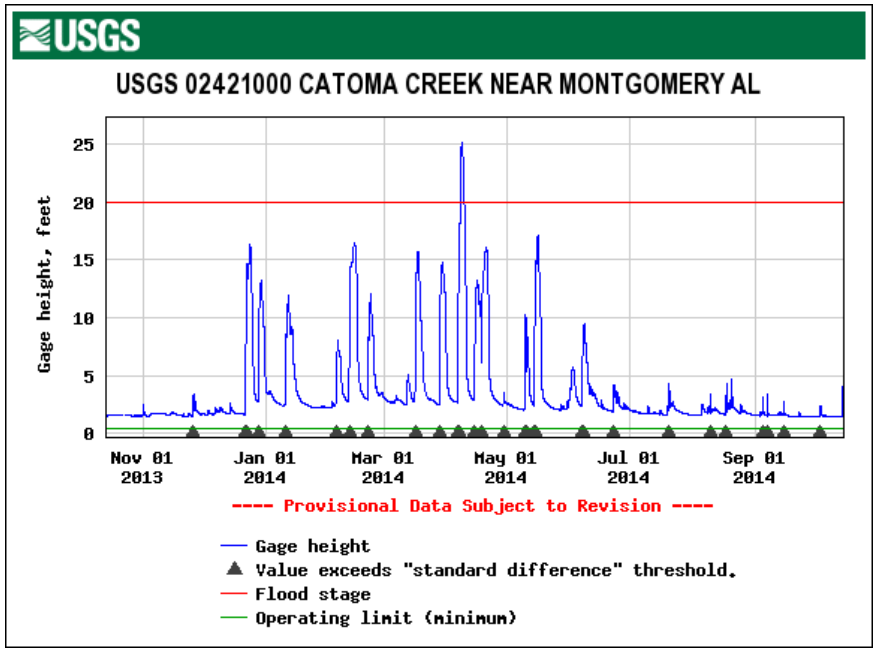
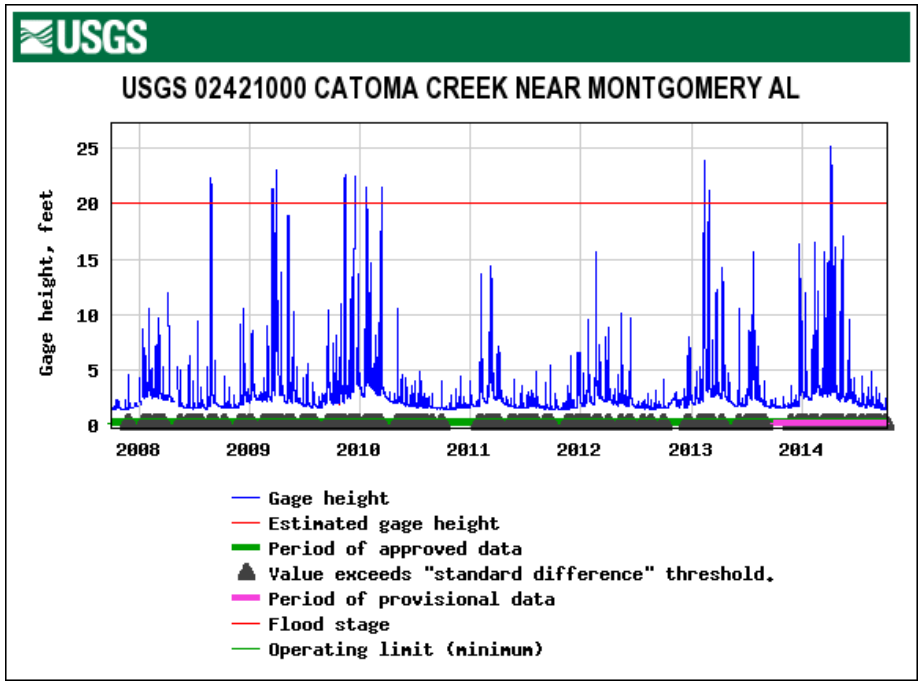

USGS
USGS 02421000 CATOMA CREEK NEAR MONTGOMERY AL
Gage height, feet
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Oct 07 2014
Oct 08 2014
Oct 09 2014
Oct 10 2014
Oct 11 2014
Oct 12 2014
Oct 13 2014
Oct 14 2014
---- Provisional Data Subject to Revision ----
Gage height
Operating limit (minimum)


USGS
USGS 02421000 CATOMA CREEK NEAR MONTGOMERY AL
Gage height, feet
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Sep 20 2014
Sep 27 2014
Oct 04 2014
Oct 11 2014
---- Provisional Data Subject to Revision ----
Gage height
Measured gage height
Value exceeds "standard difference" threshold.
Operating limit (minimum)


USGS
USGS 02421000 CATOMA CREEK NEAR MONTGOMERY AL
Gage height, feet
25
20
15
10
5
0
Nov 01 2013
Jan 01 2014
Mar 01 2014
May 01 2014
Jul 01 2014
Sep 01 2014
---- Provisional Data Subject to Revision ----
Gage height
Value exceeds "standard difference" threshold.
Flood stage
Operating limit (minimum)


USGS
USGS 02421000 CATOMA CREEK NEAR MONTGOMERY AL
Gage height, feet
25
20
15
10
5
0
2008
2009
2010
2011
2012
2013
2014
Gage height
Estimated gage height
Period of approved data
Value exceeds "standard difference" threshold.
Period of provisional data
Flood stage
Operating limit (minimum)

```
#
# Contact:   gs-w_support_nwisweb@usgs.gov
# retrieved: 2014-10-10 15:30:18 EDT       (nadww02)
#
# Data for the following 1 site(s) are contained in this file
#    USGS 02421000 CATOMA CREEK NEAR MONTGOMERY AL
# ----------------------------------------------------------------------------------
#
# Data provided for site 02421000
#    DD parameter   Description
#    02   00065     Gage height, feet
#
# Data-value qualification codes included in this output:
#     P  Provisional data subject to revision.
#     T  Value exceeds "standard difference" threshold.
#
agency_cd       site_no datetime        tz_cd   02_00065        02_00065_cd
5s      15s     20d     6s      14n     10s
USGS    02421000        2014-10-03 00:00        CDT     1.47    P
USGS    02421000        2014-10-03 00:30        CDT     1.47    P
USGS    02421000        2014-10-03 01:00        CDT     1.47    P
USGS    02421000        2014-10-03 01:30        CDT     1.47    P
USGS    02421000        2014-10-03 02:00        CDT     1.47    P
USGS    02421000        2014-10-03 02:30        CDT     1.48    P
USGS    02421000        2014-10-03 03:00        CDT     1.48    P
USGS    02421000        2014-10-03 03:30        CDT     1.48    P
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USGS    02421000        2014-10-03 06:30        CDT     1.48    P
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USGS    02421000        2014-10-03 08:30        CDT     2.20    P
USGS    02421000        2014-10-03 09:00        CDT     2.18    P
USGS    02421000        2014-10-03 09:30        CDT     2.19    P
USGS    02421000        2014-10-03 10:00        CDT     2.31    P
USGS    02421000        2014-10-03 10:30        CDT     2.42    P
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USGS    02421000        2014-10-03 11:30        CDT     2.40    P
USGS    02421000        2014-10-03 12:00        CDT     2.35    P
USGS    02421000        2014-10-03 12:30        CDT     2.28    P
USGS    02421000        2014-10-03 13:00        CDT     2.21    P
USGS    02421000        2014-10-03 13:30        CDT     2.15    P
USGS    02421000        2014-10-03 14:00        CDT     2.09    P
USGS    02421000        2014-10-03 14:30        CDT     2.04    P
USGS    02421000        2014-10-03 15:00        CDT     1.99    P
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USGS    02421000        2014-10-03 16:00        CDT     1.93    P
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USGS    02421000        2014-10-03 17:00        CDT     1.94    P
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USGS    02421000        2014-10-03 18:00        CDT     1.94    P
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USGS    02421000        2014-10-03 19:00        CDT     1.92    P
```

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DATA CENTER

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- Water quality
- Precipitation
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- Current conditions
- Water-Quality Watch

Ground-Water Networks
- Real-time data
- Active ground-water levels
- Climate Response Network

USGS WaterNow

USGS WaterAlert

National Water Information System Mapper

USGS Flood Inundation Mapper

Provisional Alabama Storm Tide Data

USGS Historical Data
- Annual Data Reports

Water Resources of Alabama

Welcome to the new website for the USGS Alabama Water Science Center!

Welcome to the U.S. Geological Survey (USGS) Web page for the water resources of Alabama; this is your direct link to all kind
Here you'll find information on Alabama's rivers and streams. You'll also find information about ground water, water quality, and
operates the most extensive satellite network of stream-gaging stations in the state, many of which form the backbone of floo

The USGS provides current ("real-time") stream stage and streamflow, water-quality, and ground-water levels for over 200 site

Quick Link to Real-Time Data

Enter a USGS site number:
Go

View site list: SW | GW | WQ

USGS Alabama Highlights

USGS StreamStats

StreamStats is a Web-based tool that provides streamflow statistics, drainage-basin characteristics, and other information for USGS streamgaging stations and for user-selected ungaged sites on streams. When users select the location of a streamgaging station, StreamStats provides previously published information from a database. When users select a site on an ungaged stream, StreamStats will determine the drainage-basin boundary for the site, compute a variety of drainage-basin characteristics, and solve

Featured Project

U.S. Geological Survey Flood Inundation Mapping Science

Static flood-inundation map libraries consist of maps that have been created in advance of a flood that are ready to be served through the Internet. Each library consists of a set of flood extent and depth maps developed for predetermined stream stage intervals (for example, a map for each one foot of stage). A user can view real-time or forecast stage data from a USGS streamgage or National Weather

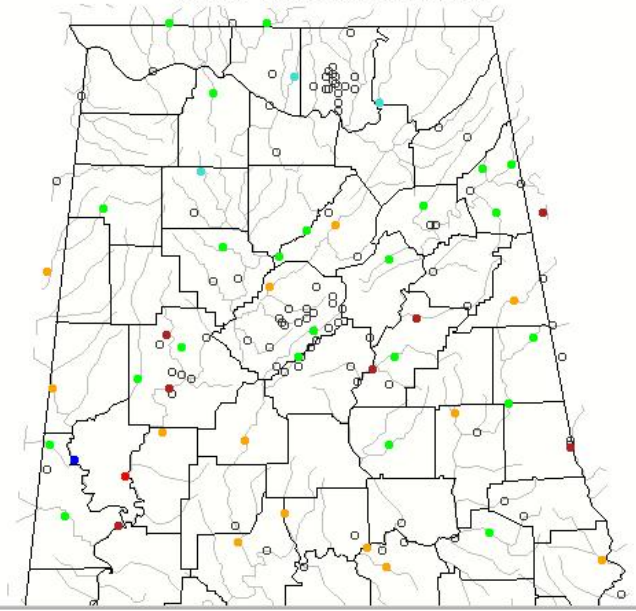
USGS science for a changing world

WaterWatch

Map of real-time streamflow compared to historical streamflow for the day of the year (Alabama)

Alabama or Water-Resources Regions

Friday, October 10, 2014 15:30ET



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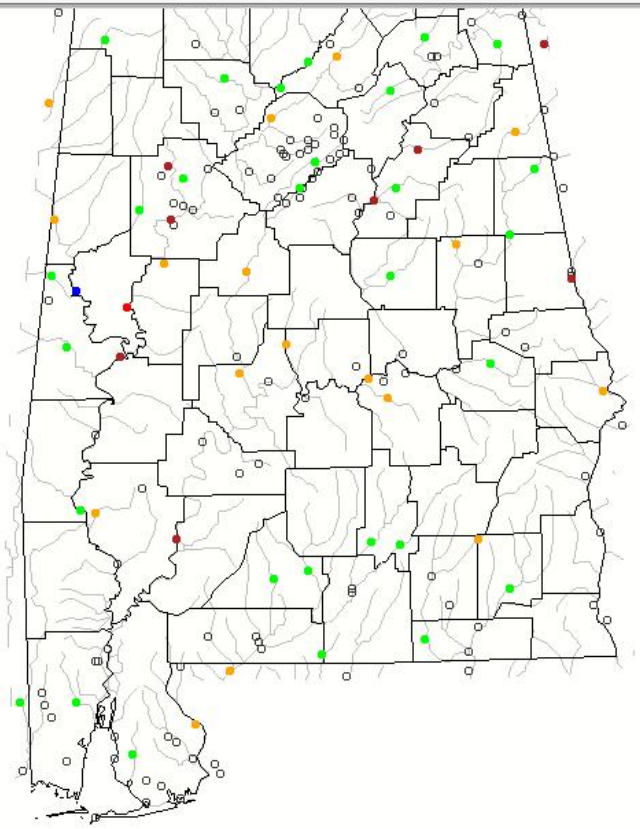

USGS

Choose a data retrieval option and select a location on the map

○ List of all stations ◉ Single station ○ Nearest stations ○ Peak flow

Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		

percentile - Windows Internet Explorer

A **percentile** is a value on a scale of one hundred that indicates the percent of a distribution that is equal to or below it. For example, on the map of daily streamflow conditions a river discharge at the 90th percentile is equal to or greater than 90 percent of the discharge values recorded on this day of the year during all years that measurements have been made. In general,

- A streamflow which is greater than the 75th percetile is considered *above normal*
- A streamflow which is between 25th and 75th percentiles is considered *normal*
- A streamflow which is less than the 25 percentile is considered *below normal*

In some hydrological studies, particularly those related to floods, a variation of the percentile known as the "percent exceedance" is used. It is simply obtained by subtracting the percentile scale value from 100 percent. For example, a discharge at the 75th percentile is the same as a discharge at the 25th percent exceedance (100-75=25).

The flow category "Low" indicates that the estimated streamflow is the lowest value ever measured for the day of the year. Similarly, the flow category "High" indicates that the estimated streamflow is the highest value ever measured for the day of the year.

"Not ranked" indicates that a flow category has not been computed. Common reasons for a "Not ranked" category are insufficient historical data or no current streamflow estimates.

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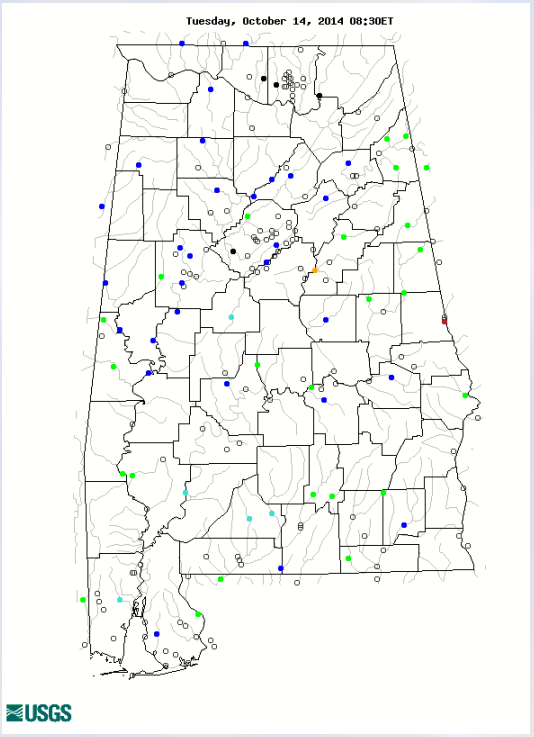
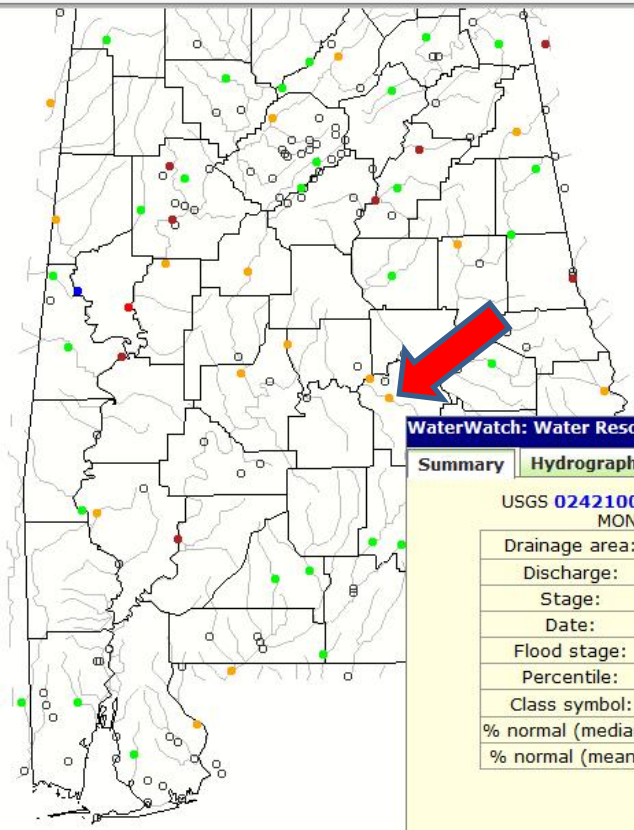
About WaterWatch

Today!





WaterWatch: Water Resources Conditions

Summary | Hydrograph | Peak | Forecast | Rating

USGS **02421000** CATOMA CREEK NEAR MONTGOMERY AL

Drainage area:	290.00 mi^2
Discharge:	0.77 cfs
Stage:	1.43 ft
Date:	2014-10-10 13:00:00
Flood stage:	20 ft
Percentile:	22.97 %
Class symbol:	
% normal (median):	17.11 %
% normal (mean):	1.09 %

USGS

Choose a data retrieval option and select a location on the map

○ List of all stations ◉ Single station ○ Nearest stations ○ Peak flow

Explanation - Percentile classes							
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked

http://waterwatch.usgs.gov/?m=real&r=al

USGS WaterWat...

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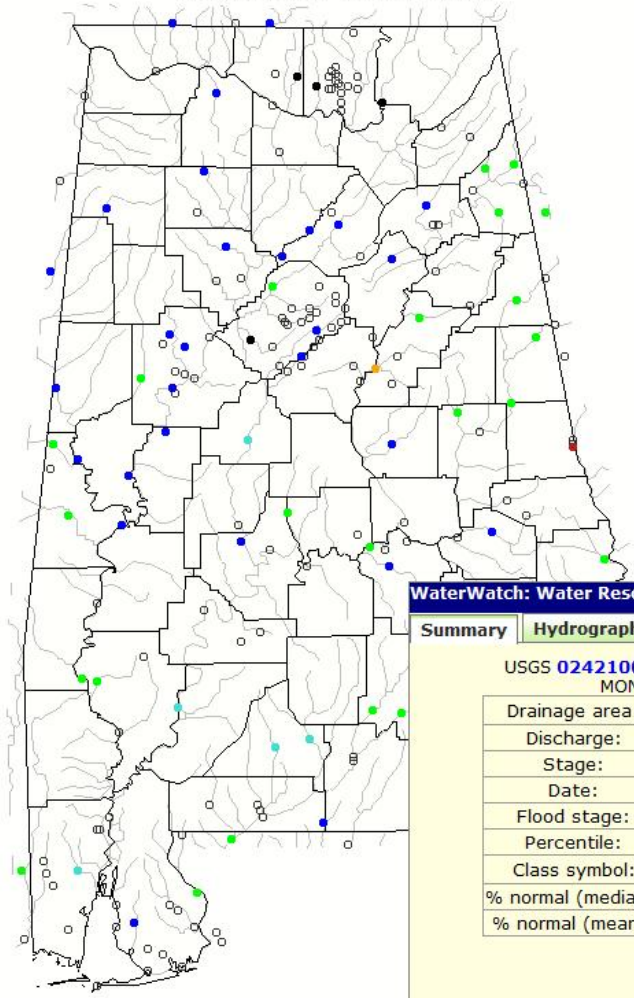

USGS

WaterWatch: Water Resources Conditions

Summary | Hydrograph | Peak | Forecast | Rating

USGS **02421000** CATOMA CREEK NEAR MONTGOMERY AL

Drainage area:	290.00 mi^2
Discharge:	418 cfs
Stage:	4.06 ft
Date:	2014-10-14 06:00:00
Flood stage:	20 ft
Percentile:	98.66 %
Class symbol:	
% normal (median):	6688.00 %
% normal (mean):	1275.56 %

Choose a data retrieval option and select a location on the map

http://waterwatch.usgs.gov/?m=real&r=al

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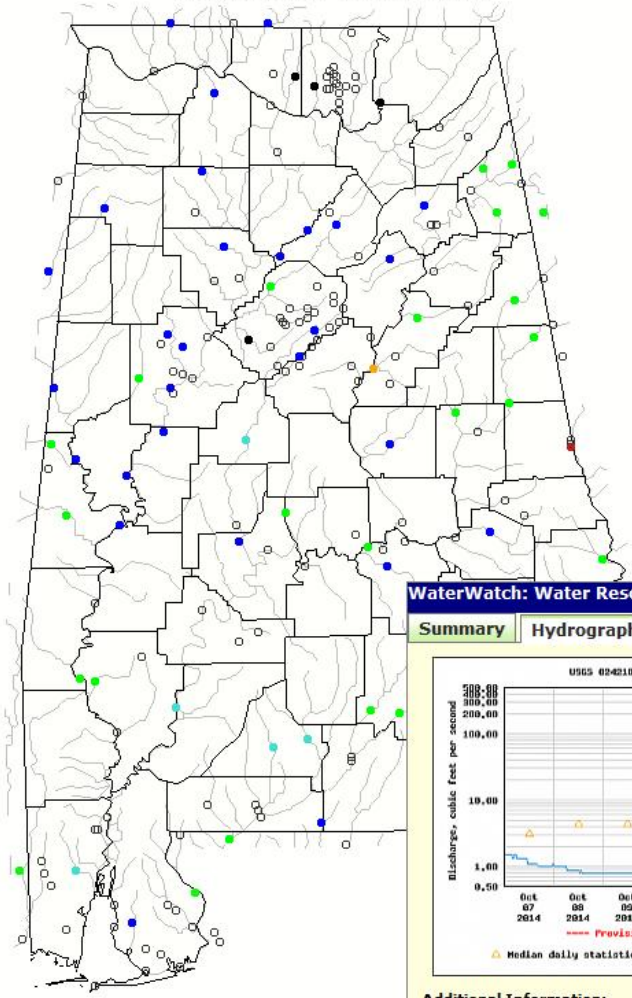
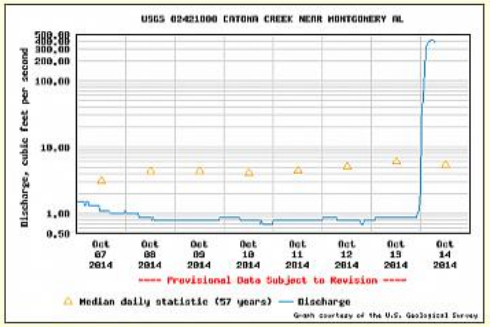


WaterWatch: Water Resources Conditions

Summary | Hydrograph | Peak | Forecast | Rating



Additional Information:

- WaterAlert email and text message alerts
- Subscribe WaterAlert for this site

USGS

Choose a data retrieval option and select a location on the map

http://waterwatch.usgs.gov/?m=real&r=al

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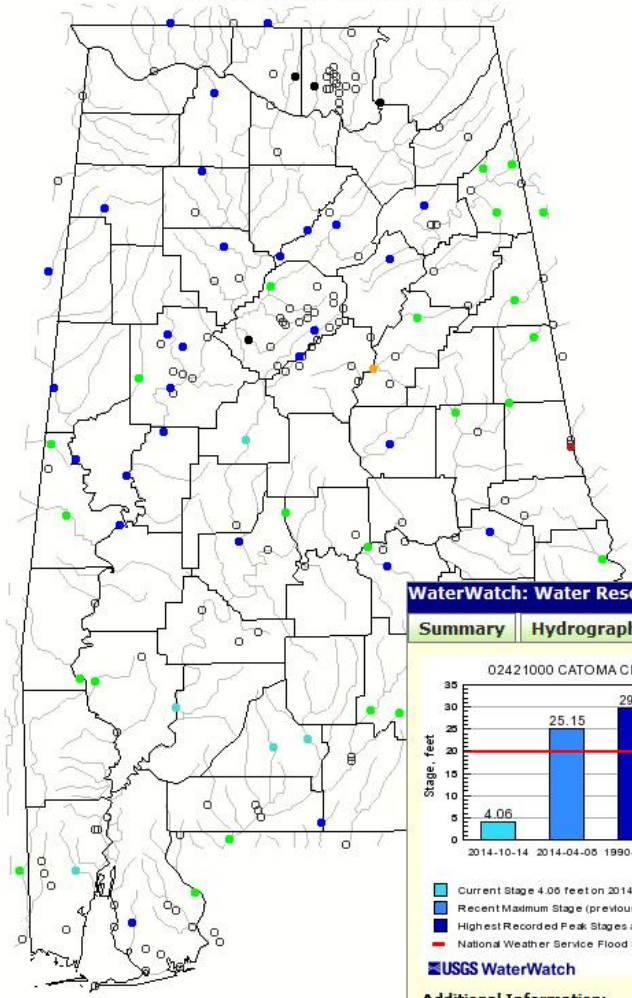
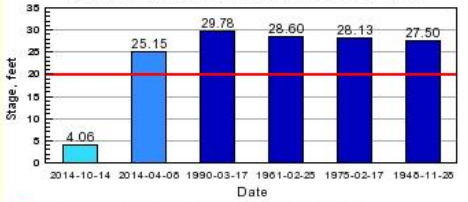


USGS

WaterWatch: Water Resources Conditions

Summary | Hydrograph | Peak | Forecast | Rating

02421000 CATOMA CREEK NEAR MONTGOMERY AL



Current Stage 4.06 feet on 2014-10-14 06:00:00 (provisional)
Recent Maximum Stage (previous 365 days) 25.15 feet on 2014-04-05 (provisional)
Highest Recorded Peak Stages at Current Datum
National Weather Service Flood Stage 20 feet

USGS WaterWatch

Additional Information:

- Discharge-based version of this graph
- USGS Peak Streamflow
- Subscribe WaterAlert for this site

Choose a data retrieval option and select a location on the map

http://waterwatch.usgs.gov/?m=real&r=al

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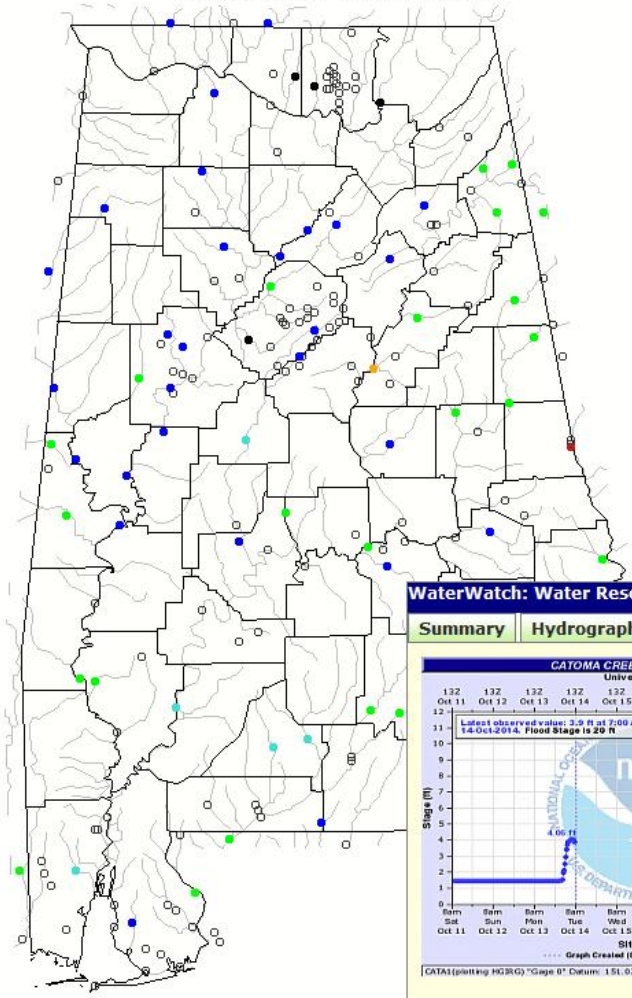
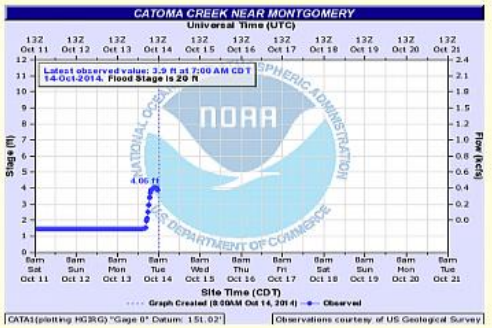


USGS

WaterWatch: Water Resources Conditions

Summary | Hydrograph | Peak | Forecast | Rating



Choose a data retrieval option and select a location on the map

http://waterwatch.usgs.gov/?m=real&r=al

USGS WaterWat...

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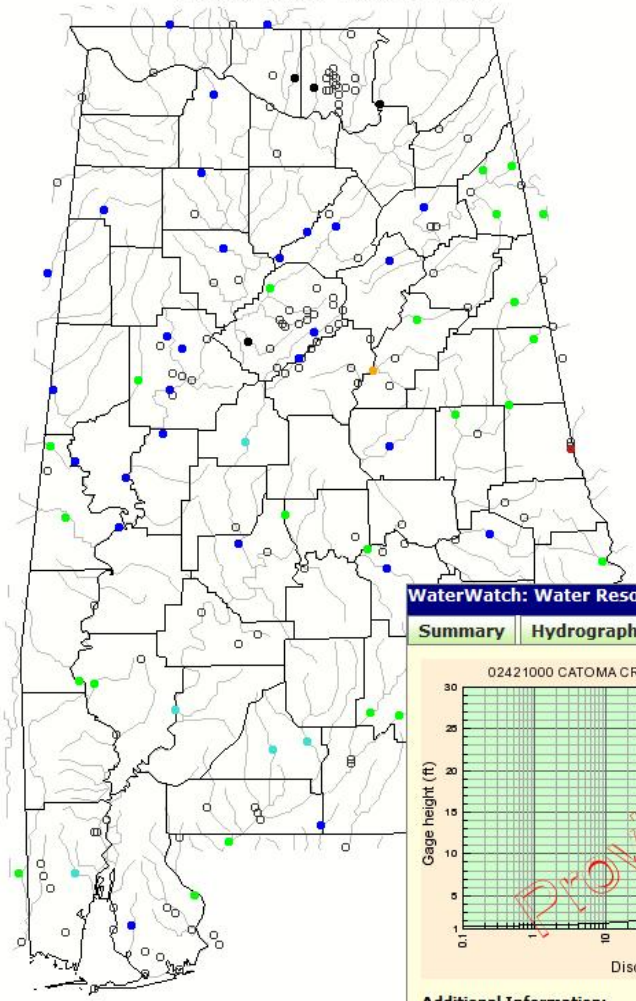
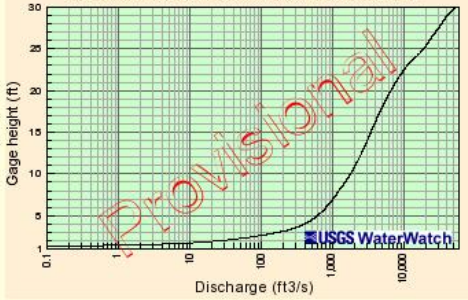


USGS

WaterWatch: Water Resources Conditions

Summary | Hydrograph | Peak | Forecast | Rating

02421000 CATOMA CREEK NEAR MONTGOMERY AL



Additional Information:

- Explanation
- Shift-adjusted rating table

Choose a data retrieval option and select a location on the map

USGS science for a changing world

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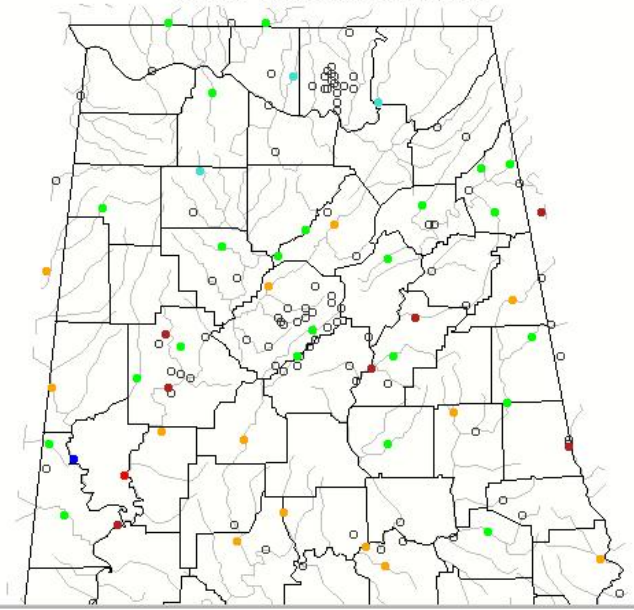
Map | Map (HCDN) | Flow Table | Summary Plot | Percent Summary | Summary Table | Web Map | Google Earth

Map of real-time streamflow compared to historical streamflow for the day of the year (Alabama)

Alabama or Water-Resources Regions

Friday, October 10, 2014 15:30ET



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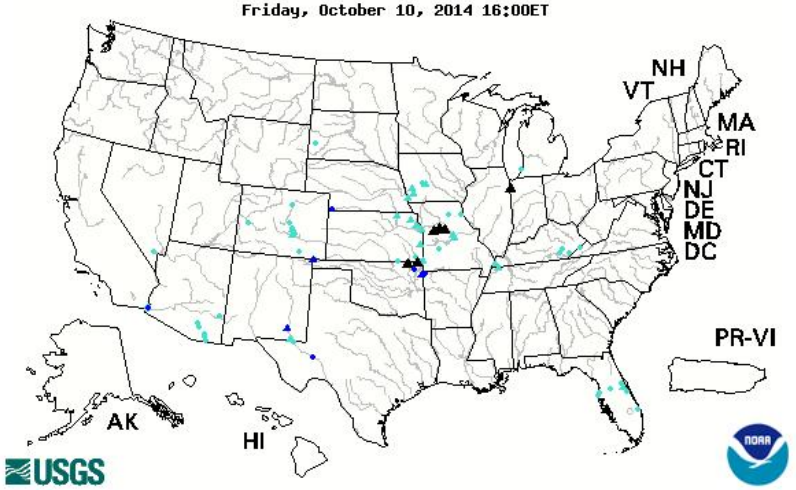
Location above Flood Stage
Web Map
Flood Table Builder
Flood-Tracking Chart
Cumulative Streamflow Hydrograph

Map | Table | Web Map

Map of flood and high flow condition (United States)

State or Water-Resources Regions

Friday, October 10, 2014 16:00ET



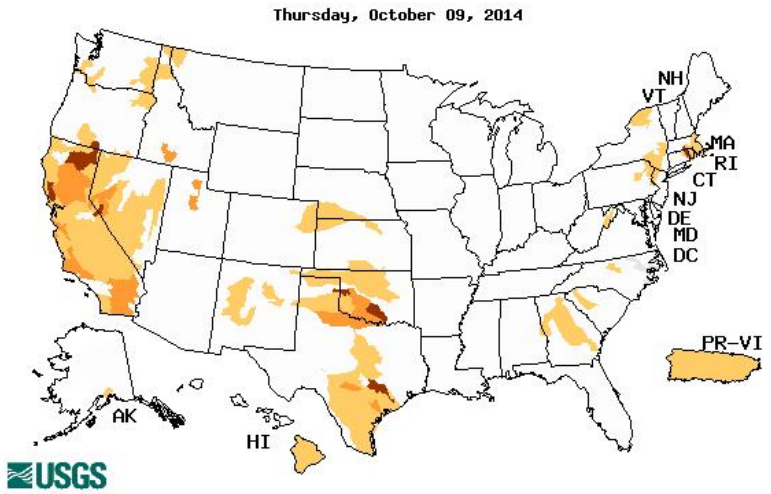
Choose a data retrieval option and select a location on the map

○ List of all stations in state, ◉ State map, or ○ Nearest stations

USGS science for a changing world

Map of below normal 7-day average streamflow compared to historical streamflow for the day of year (United States)

State



Choose a data retrieval option and select a state on the map
○ State DroughtWatch, ◉ State map

Explanation - Percentile classes

http://waterwatch.usgs.gov/index.php?id=ww_past

USGS WaterWat...

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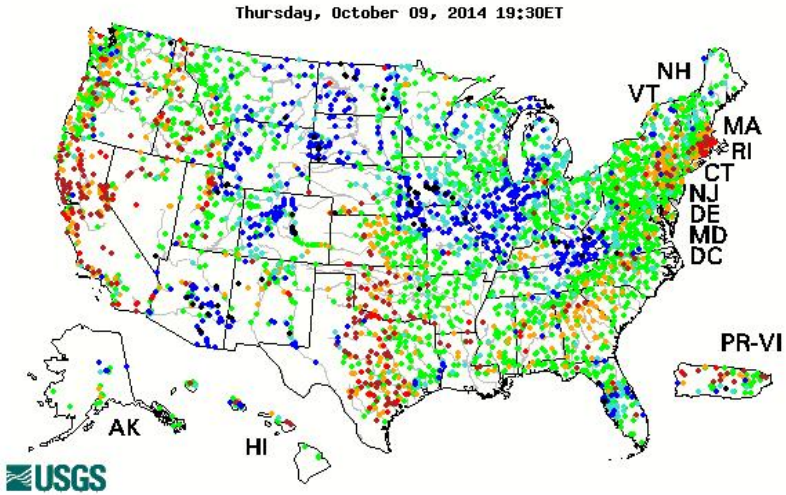
- Map Archive
- Monthly Map Archive
- Hydrologic Unit Runoff
- Annual Summary By State
- Streamgage Locations in KML

Archive of streamflow maps (United States)

Choose one of the following options to view a map.

Time Period :	Year:	Month:	Day:	
Real-time	< 2014 >	< October >	< 9 >	Help

|<< < 2014-10-09 > >>| Map Type: Streamflow Map



Explanation - Percentile classes						
Low	<10	10-24	25-75	76-90	>90	High
	Much below normal	Below normal	Normal	Above normal	Much above normal	

http://waterwatch.usgs.gov/index.php?id=ww_past

USGS science for a changing world

WaterWatch

Table of computed runoff by water-year for Alabama

(Download version)

Alabama

Region	Year	Runoff (mm)	Runoff (in)	Rank	Percentile
AL	1901	654.61	25.77	26	77.19
AL	1902	595.34	23.44	45	60.53
AL	1903	665.04	26.18	23	79.82
AL	1904	234.53	9.23	113	0.88
AL	1905	414.57	16.32	87	23.68
AL	1906	552.45	21.75	55	51.75
AL	1907	557.45	21.95	53	53.51
AL	1908	577.65	22.74	50	56.14
AL	1909	655.24	25.80	25	78.07
AL	1910	358.60	14.12	99	13.16
AL	1911	337.18	13.27	102	10.53
AL	1912	752.81	29.64	10	91.23
AL	1913	596.21	23.47	43	62.28
AL	1914	278.98	10.98	110	3.51
AL	1915	472.31	18.59	75	34.21
AL	1916	650.12	25.60	28	75.44
AL	1917	635.99	25.04	33	71.05

Table of computed runoff by water-year for Alabama

(Download version)

Alabama

Region	Year	Runoff (mm)	Runoff (in)	Rank	Percentile
AL	1901	654.61	25.77	26	77.19
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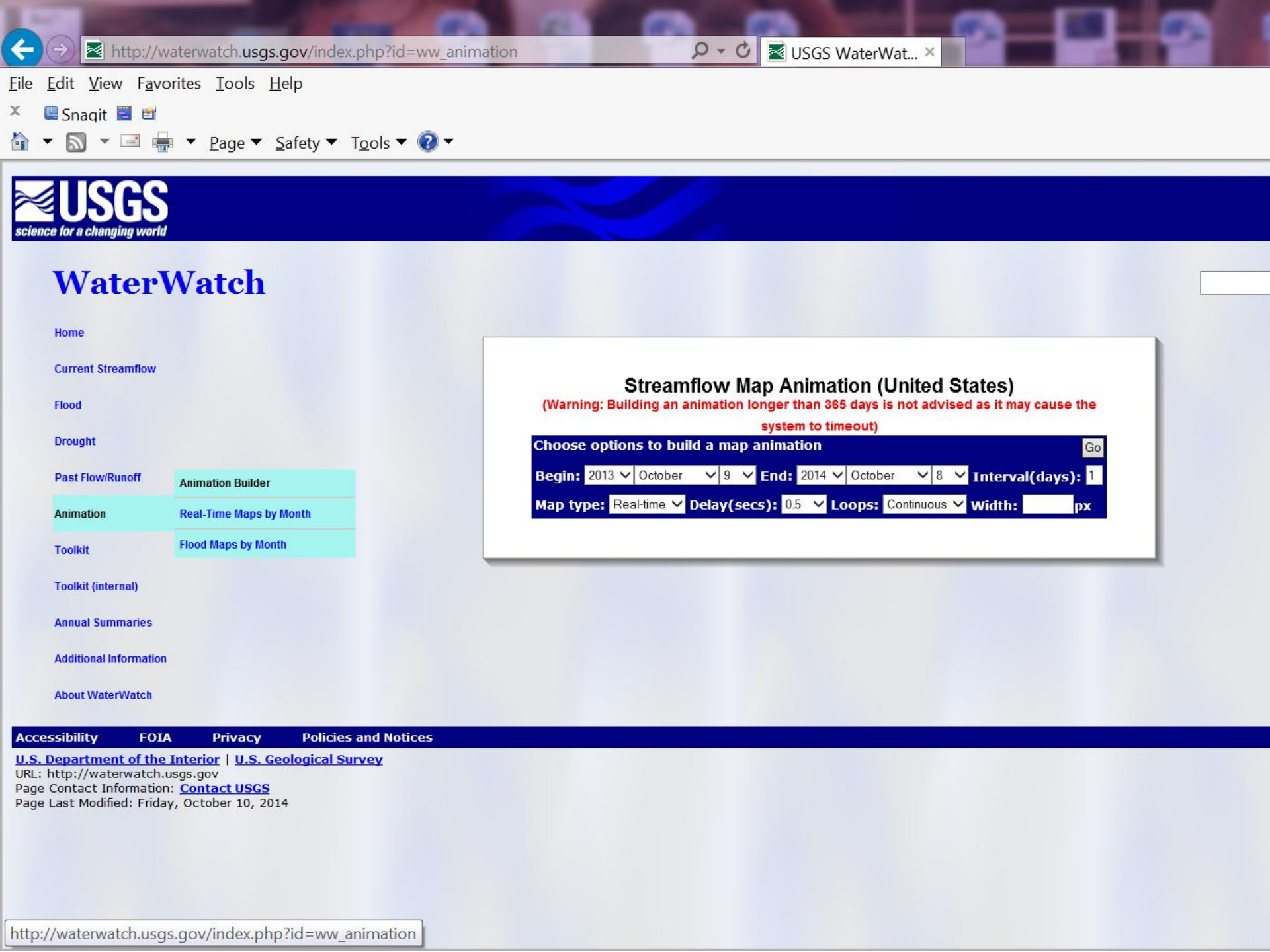
AL	1904	234.53	9.23	113	0.88
AL	1905	414.57	16.32	87	23.68
AL	1906	552.45	21.75	55	51.75
AL	1907	557.45	21.95	53	53.51
AL	1908	577.65	22.74	50	56.14
AL	1909	655.24	25.80	25	78.07
AL	1910	358.60	14.12	99	13.16
AL	1911	337.18	13.27	102	10.53
AL	1912	752.81	29.64	10	91.23
AL	1913	596.21	23.47	43	62.28
AL	1914	278.98	10.98	110	3.51
AL	1915	472.31	18.59	75	34.21
AL	1916	650.12	25.60	28	75.44
AL	1917	635.99	25.04	33	71.05
AL	1918	391.15	15.40	92	19.30
AL	1919	706.00	27.80	18	84.21
AL	1920	892.67	35.14	1	99.12
AL	1921	550.47	21.67	56	50.88
AL	1922	689.76	27.16	19	83.33
AL	1923	619.80	24.40	36	68.42
AL	1924	529.37	20.84	60	47.37
AL	1925	363.58	14.31	98	14.04
AL	1926	438.68	17.27	84	26.32
AL	1927	499.98	19.68	70	38.60
AL	1928	580.06	22.84	48	57.89
AL	1929	683.29	26.90	20	82.46
AL	1930	563.24	22.17	52	54.39
AL	1931	323.75	12.75	105	7.89
AL	1932	529.87	20.86	59	48.25
AL	1933	728.52	28.68	12	89.47
AL	1934	325.36	12.81	104	8.77
AL	1935	492.52	19.39	72	36.84
AL	1936	607.91	23.93	39	65.79
AL	1937	579.30	22.81	49	57.02
AL	1938	528.32	20.80	61	46.49
AL	1939	557.13	21.93	54	52.63
AL	1940	459.49	18.09	80	29.82
AL	1941	307.76	12.12	106	7.02
AL	1942	411.75	16.21	88	22.81
AL	1943	505.64	19.91	65	42.98
AL	1944	604.12	23.78	42	63.16
AL	1945	454.41	17.89	82	28.07
AL	1946	750.06	29.53	11	90.35
AL	1947	630.63	24.83	34	70.18
AL	1948	604.39	23.79	41	64.04
AL	1949	867.06	34.14	2	98.25
AL	1950	516.12	20.32	62	45.61
AL	1951	474.63	18.69	73	35.96
AL	1952	464.75	18.30	78	31.58
AL	1953	505.79	19.91	64	43.86
AL	1954	366.82	14.44	97	14.91
AL	1955	375.88	14.80	95	16.67
AL	1956	381.32	15.01	93	18.42
AL	1957	472.42	18.60	74	35.09
AL	1958	596.05	23.47	44	61.40
AL	1959	430.31	16.94	85	25.44
AL	1960	541.65	21.32	58	49.12
AL	1961	658.33	25.92	24	78.95
AL	1962	671.92	26.45	22	80.70
AL	1963	402.05	15.83	90	21.05
AL	1964	648.36	25.53	29	74.56
AL	1965	543.04	21.38	57	50.00
AL	1966	467.00	18.39	76	33.33
AL	1967	402.21	15.83	89	21.93
AL	1968	505.28	19.89	67	41.23
AL	1969	428.60	16.87	86	24.56
AL	1970	465.63	18.33	77	32.46
AL	1971	606.56	23.88	40	64.91
AL	1972	516.05	20.32	63	44.74
AL	1973	813.86	32.04	3	97.37
AL	1974	673.48	26.51	21	81.58
AL	1975	805.35	31.71	5	95.61
AL	1975	805.35	31.71	5	95.61
AL	1976	714.19	28.12	17	85.09
AL	1977	573.05	22.56	51	55.26
AL	1978	619.38	24.38	37	67.54
AL	1979	720.88	28.38	14	87.72
AL	1980	785.93	30.94	8	92.98
AL	1981	330.08	13.00	103	9.65
AL	1982	500.94	19.72	69	39.47
AL	1983	793.52	31.24	7	93.86
AL	1984	647.15	25.48	30	73.68
AL	1985	377.10	14.85	94	17.54
AL	1986	295.69	11.64	107	6.14
AL	1987	496.41	19.54	71	37.72
AL	1988	283.96	11.18	109	4.39
AL	1989	644.66	25.38	31	72.81
AL	1990	796.84	31.37	6	94.74
AL	1991	654.53	25.77	27	76.32
AL	1992	446.34	17.57	83	27.19
AL	1993	622.72	24.52	35	69.30
AL	1994	587.15	23.12	46	59.65
AL	1995	504.02	19.84	68	40.35
AL	1996	724.83	28.54	13	88.60
AL	1997	642.24	25.28	32	71.93
AL	1998	716.65	28.21	16	85.96
AL	1999	455.75	17.94	81	28.95
AL	2000	259.31	10.21	111	2.63
AL	2001	505.46	19.90	66	42.11
AL	2002	397.26	15.64	91	20.18
AL	2003	809.95	31.89	4	96.49
AL	2004	462.83	18.22	79	30.70
AL	2005	718.97	28.31	15	86.84
AL	2006	352.73	13.89	100	12.28
AL	2007	255.16	10.05	112	1.75
AL	2008	293.46	11.55	108	5.26
AL	2009	586.23	23.08	47	58.77
AL	2010	759.28	29.89	9	92.11
AL	2011	368.52	14.51	96	15.79
AL	2012	346.42	13.64	101	11.40
AL	2013	618.12	24.34	38	66.67


http://waterwatch.usgs.gov/index.php?id=ww_animation
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Flood Maps by Month
Streamflow Map Animation (United States)
(Warning: Building an animation longer than 365 days is not advised as it may cause the system to timeout)
Choose options to build a map animation
Go
Begin: 2013 October 9 End: 2014 October 8 Interval(days): 1
Map type: Real-time Delay(secs): 0.5 Loops: Continuous Width: px
Accessibility FOIA Privacy Policies and Notices
U.S. Department of the Interior | U.S. Geological Survey
URL: http://waterwatch.usgs.gov
Page Contact Information: Contact USGS
Page Last Modified: Friday, October 10, 2014
http://waterwatch.usgs.gov/index.php?id=ww_animation

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Cumulative Streamflow Hydrograph
Cumulative Runoff Hydrograph
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Rating Curve
Streamflow Map Builder
Streamflow Map
Flood Table
Drought Table
Map Comparison
Site Visit
Flood-Tracking Chart
AHPS River Forecast
Raster Hydrograph

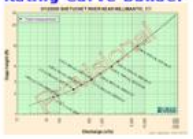
USGS WaterWatch Toolkit

Streamflow Conditions Map Builder

This builder is used to customize the streamflow conditions maps in size and color.

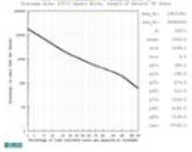
State Google Map Builder

A Google Maps version of the streamflow conditions map can be created in users web sites.

Rating Curve Builder

The rating curve builder is used to create a USGS streamflow rating curve. The rating table is from the USGS ratings depot. Field measurements can also be appended to the curve.

Flood Table Builder

This tool summarizes the flood and high flow conditions for a state or a region for a given time period. Tables and Google Maps are used to summarize conditions and to show locations, respectively.

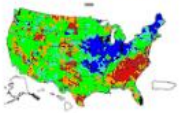
Streamgage Statistics Retrieval Tool

The "streamgage statistics" retrieval tool provides a list of basic summary statistics and duration graph for the selected streamgage, as computed from daily values, for the period of record.

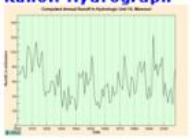
Duration Hydrograph Builder

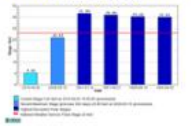
The builder is used to present a time-history of streamflow for the past two years along with historical streamflow percentiles for individual streamgages.

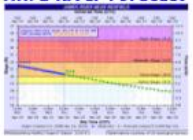
Streamflow Map Animation Builder

This tool is to create a streamflow map animation for a time period for real-time streamflow and flood-and-high flow maps, respectively.

Hydrologic Unit Runoff Maps

Hydrologic unit runoff ar runoff condition maps since 1901 are available

Runoff Hydrograph

Monthly, quarterly, and annual HUC runoff time-seris plots are avialable in a HUC area and a state.

Flood Tracking Chart

A URL is provided to create flood-tracking chart which shows current state, recent peak stage, historical highest peaks, and flood stage.

AHPS River Forecast

AHPS river forcast chart can be assessed by a USGS station number.

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Water Year 2006

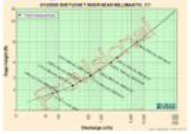
USGS WaterWatch Toolkit

Streamflow Conditions Map Builder

This builder is used to customize the streamflow conditions maps in size and color.

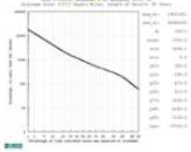
State Google Map Builder

A Google Maps version of the streamflow conditions map can be created in users web sites.

Rating Curve Builder

The rating curve builder is used to create a USGS streamflow rating curve. The rating table is from the USGS ratings depot. Field measurements can also be appended to the curve.

Flood Table Builder

This tool summarizes the flood and high flow conditions for a state or a region for a given time period. Tables and Google Maps are used to summarize conditions and to show locations, respectively.

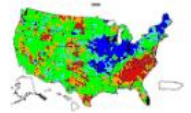
Streamgage Statistics Retrieval Tool

The "streamgage statistics" retrieval tool provides a list of basic summary statistics and duration graph for the selected streamgage, as computed from daily values, for the period of record.

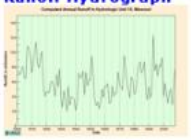
Duration Hydrograph Builder

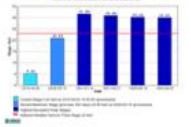
The builder is used to present a time-history of streamflow for the past two years along with historical streamflow percentiles for individual streamgages.

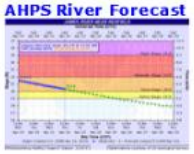
Streamflow Map Animation Builder

This tool is to create a streamflow map animation for a time period for real-time streamflow and flood-and-high flow maps, respectively.

Hydrologic Unit Runoff Maps

Hydrologic unit runoff ar runoff condition maps since 1901 are available

Runoff Hydrograph

Monthly, quarterly, and annual HUC runoff time-seris plots are avialable in a HUC area and a state.

Flood Tracking Chart

A URL is provided to create flood-tracking chart which shows current state, recent peak stage, historical highest peaks, and flood stage.

AHPS River Forecast

AHPS river forcast chart can be assessed by a USGS station number.

http://waterwatch.usgs.gov/2013summary/

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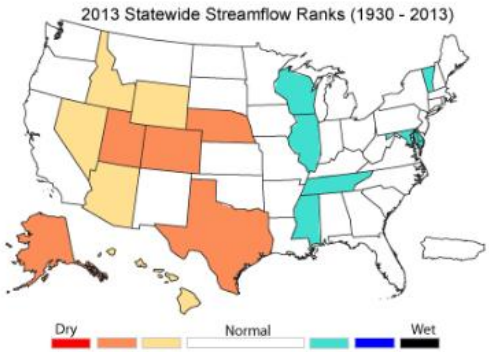
USGS science for a changing world

This summary is published as USGS Fact Sheet 2014-3030 and can be downloaded as a PDF file

Streamflow of 2013 - Water Year Summary

U.S. Geological Survey
Reston, Virginia

January 2014



Introduction

The maps and graphs in this summary describe streamflow conditions for water-year 2013 (October 1, 2012 to September 30, 2013) in the context of the 84-year period 1930-2013, unless otherwise noted. The illustrations are based on observed data from the U.S. Geological Survey's (USGS) National Streamflow Information Program (http://water.usgs.gov/nsip). The period 1930-2013 was used because prior to 1930, the number of streamgages was too small to provide representative data for computing statistics for most regions of the country.

In the summary, reference is made to the term "runoff," which is the depth to which a river basin, State, or other geographic area would be covered with water if all the streamflow within the area during a specified time period was uniformly distributed upon it. Runoff quantifies the magnitude of water flowing through the Nation's rivers and streams in measurement units that can be compared from one area to another.

Each of the maps and graphs below can be expanded to a larger view by clicking on the image. In all the

http://waterwatch.usgs.gov/2007summary/

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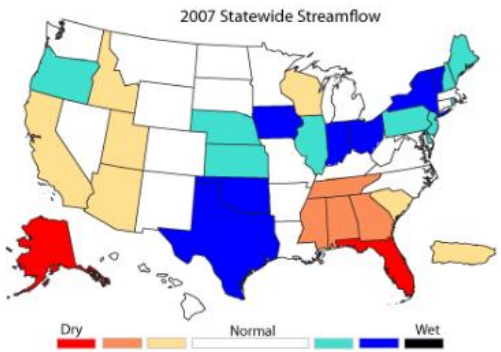
USGS science for a changing world

This summary is published as USGS Fact Sheet FS-2008-3042 and can be downloaded as a PDF file

Streamflow of 2007 - Water Year Summary

U.S. Geological Survey
Reston, Virginia

January 2008

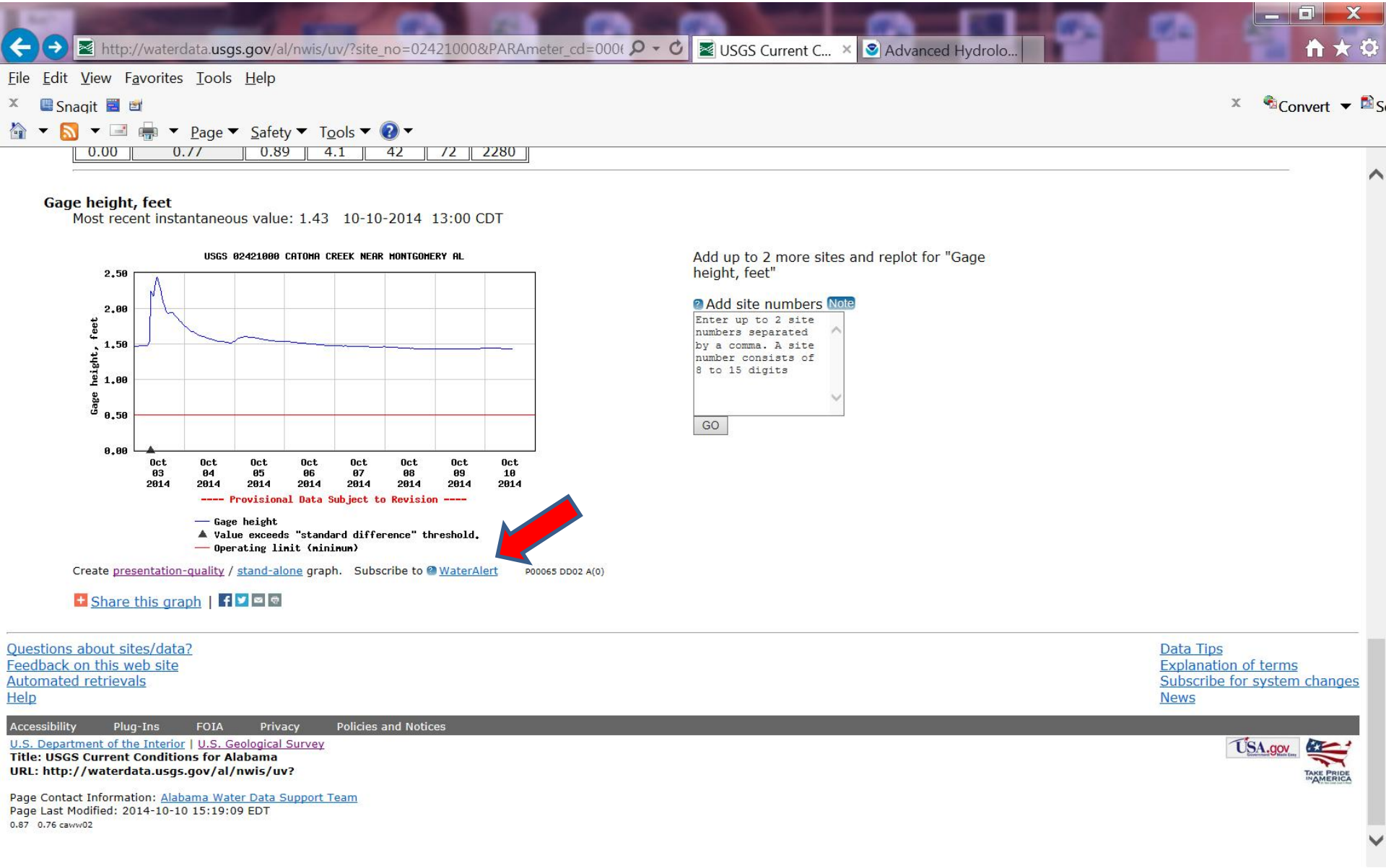


Introduction

The maps and graphs appearing in this summary describe streamflow conditions for water-year 2007 (October 1, 2006 to September 30, 2007) in the context of the 78-year period 1930-2007, unless otherwise noted. The illustrations are based on observed data from the U.S. Geological Survey's (USGS) National Streamflow Information Program. The period 1930-2007 was used because prior to 1930, the number of streamgages was too small to provide representative data for computing statistics for most regions of the country.

In the summary, reference is made to the term "runoff," which is the depth to which a river basin, State, or other geographic area would be covered with water if all the streamflow within the area during a single year was uniformly distributed upon it. Runoff quantifies the magnitude of water flowing through the Nation's rivers and streams in measurement units that can be compared from one area to another. The runoff value for a geographic area is computed as the median runoff value for all streamgages in that geographic area. For example, the runoff value for a state is the median for all streamgages in that state, and the median for

WaterAlert


http://waterdata.usgs.gov/al/nwis/uv/?site_no=02421000&PARAmeter_cd=000(
USGS Current C...
Advanced Hydrolo...
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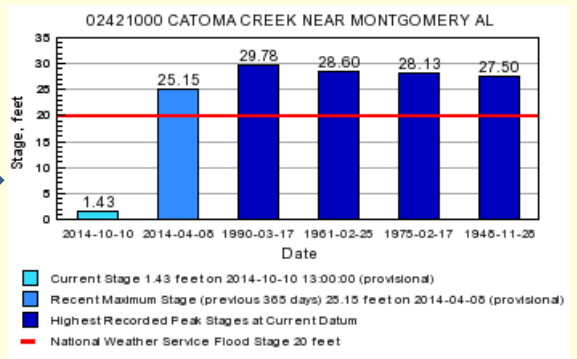
Snagit
Convert
Page Safety Tools
0.00 0.77 0.89 4.1 42 72 2280
Gage height, feet
Most recent instantaneous value: 1.43 10-10-2014 13:00 CDT
USGS 02421000 CATOMA CREEK NEAR MONTGOMERY AL
Gage height, feet
2.50
2.00
1.50
1.00
0.50
0.00
Oct 03 2014
Oct 04 2014
Oct 05 2014
Oct 06 2014
Oct 07 2014
Oct 08 2014
Oct 09 2014
Oct 10 2014
---- Provisional Data Subject to Revision ----
Gage height
Value exceeds "standard difference" threshold.
Operating limit (minimum)
Add up to 2 more sites and replot for "Gage height, feet"
Add site numbers Note
Enter up to 2 site numbers separated by a comma. A site number consists of 8 to 15 digits
GO
Create presentation-quality / stand-alone graph. Subscribe to WaterAlert P00065 DD02 A(0)
Share this graph
Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News
Accessibility Plug-Ins FOIA Privacy Policies and Notices
U.S. Department of the Interior | U.S. Geological Survey
Title: USGS Current Conditions for Alabama
URL: http://waterdata.usgs.gov/al/nwis/uv?
Page Contact Information: Alabama Water Data Support Team
Page Last Modified: 2014-10-10 15:19:09 EDT
0.87 0.76 caww02

Subscription Form

The U.S. Geological Survey WaterAlert service sends e-mail or text (SMS) messages when certain parameters, as measured by a USGS real-time data-collection station, exceed user-definable thresholds. The development and maintenance of the WaterAlert system is supported by the USGS and its partners, including numerous federal, state, and local agencies.

Real-time data from USGS gages are transmitted via satellite or other telemetry to USGS offices at various intervals; in most cases, 1 to 4 times per hour. Emergency transmissions, such as during floods, may be more frequent. *Notifications will be based on the data received at these site-dependent intervals.*

Site Info:		
Site Number:	02421000	
Site Name:	CATOMA CREEK NEAR MONTGOMERY AL	
Agency:	USGS	
Transaction ID:	j3dBw	
Send Notification To:	about this...	
○ My mobile phone		
○ My email address		
Notification Frequency:	about this...	
Hourly	○	
Daily	◉	
Parameters:	about this...	Recent value:
Gage height, DD2 (ft)	◉	1.43 [peak chart]
Threshold Condition:	about this...	
◉ Greater than (>)		
○ Less than (<)		
○ Outside a range (< or >)	Real-time value isgreater than:	ft
○ Inside a range (> and <)		



☐ I have read and acknowledge the Provisional Data Statement and Disclaimer.

Submit Reset Cancel

USGS

Thank you. Your form has been submitted (ID=2CqCR).

A confirmation message has been sent to athclark@usgs.gov.

You must reply to the confirmation message before Sunday, October 12, 2014 2:52:45 PM in order to activate this subscription.

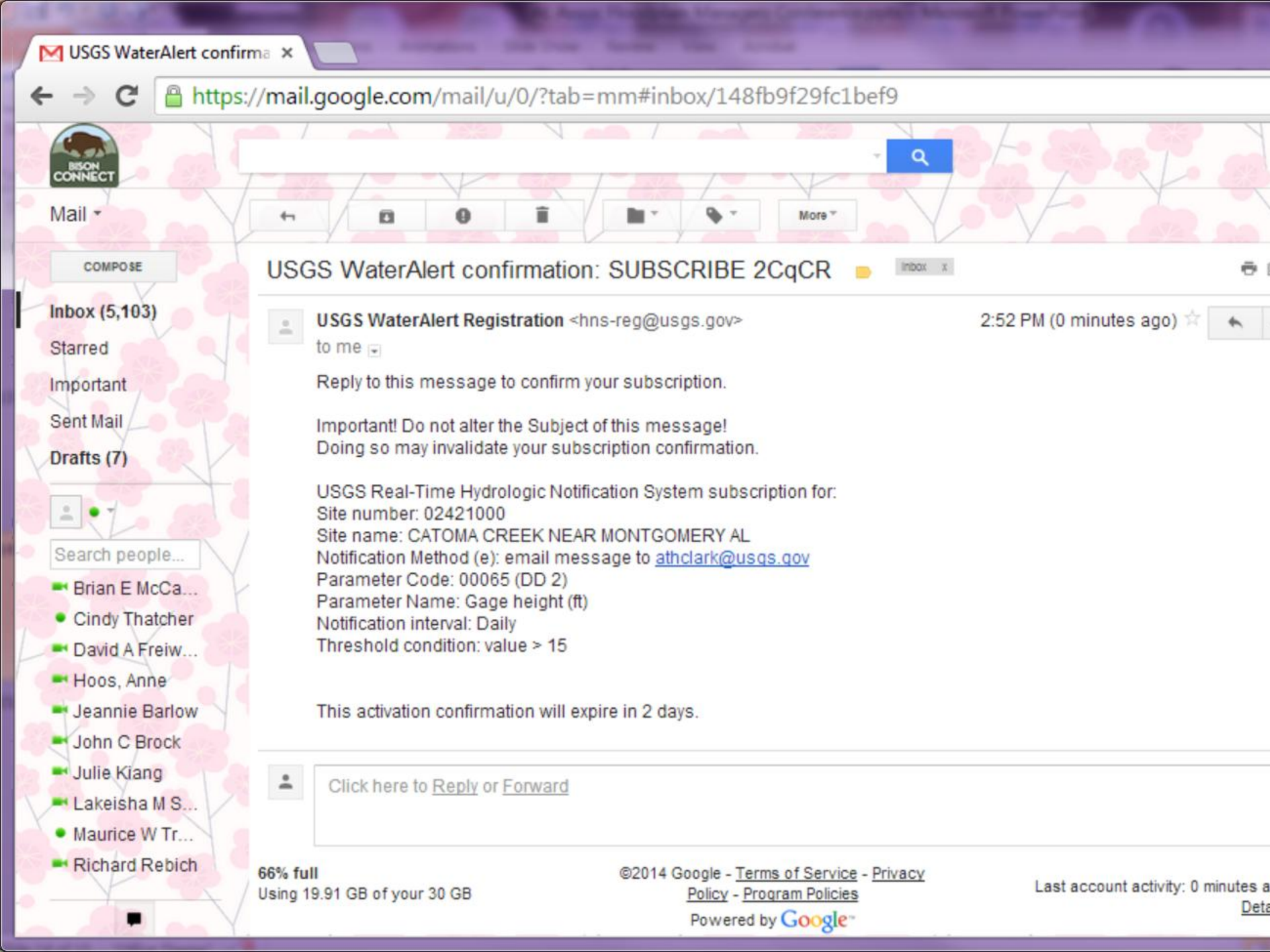
USGS Real-Time Hydrologic Notification System subscription for:

```
Site number: 02421000
Site name: CATOMA CREEK NEAR MONTGOMERY AL
Notification Method (e): email message to athclark@usgs.gov
Parameter Code: 00065 (DD 2)
Parameter Name: Gage height (ft)
Notification interval: Daily
Threshold condition: value > 15
```

Check your "Spam" mail folder if you don't receive a confirmation email from the USGS within a few minutes

Please add WaterAlert@usgs.gov to your Contacts list to help prevent alerts from going to your Spam folder.

Close


USGS WaterAlert confirma
https://mail.google.com/mail/u/0/?tab=mm#inbox/148fb9f29fc1bef9
BISON CONNECT
Mail
More
COMPOSE
Inbox (5,103)
Starred
Important
Sent Mail
Drafts (7)
Search people...
Brian E McCa...
Cindy Thatcher
David A Freiw...
Hoos, Anne
Jeannie Barlow
John C Brock
Julie Kiang
Lakeisha M S...
Maurice W Tr...
Richard Rebich
USGS WaterAlert confirmation: SUBSCRIBE 2CqCR
Inbox x
USGS WaterAlert Registration <hns-reg@usgs.gov>
2:52 PM (0 minutes ago)
to me
Reply to this message to confirm your subscription.
Important! Do not alter the Subject of this message!
Doing so may invalidate your subscription confirmation.
USGS Real-Time Hydrologic Notification System subscription for:
Site number: 02421000
Site name: CATOMA CREEK NEAR MONTGOMERY AL
Notification Method (e): email message to athclark@usgs.gov
Parameter Code: 00065 (DD 2)
Parameter Name: Gage height (ft)
Notification interval: Daily
Threshold condition: value > 15
This activation confirmation will expire in 2 days.
Click here to Reply or Forward
66% full
Using 19.91 GB of your 30 GB
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Powered by Google
Last account activity: 0 minutes a
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USGS WaterNow

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WATER DATA FOR THE NATION

National Water Information System
View current and historical streamflow, ground-water level, and water-quality data

Data by State...

Today's Water Conditions
View comparisons of current and historical conditions using maps

- Streamflow
- Flood and high flow
- Drought
- Ground water levels
- Surface water quality

WATER SCIENCE SPECIALTIES
- Surface Water
- Ground Water
- Water Quality
- Water Use

WATER SCIENCE BY STATE
USGS Water Science Centers are located in each state

Select a State...

News updated Jul 2, 2014

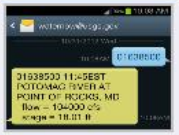
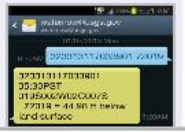
USGS WaterNow – Current-conditions for water data directly to your mobile phone or email

Send an email or text message containing a USGS current-conditions gaging site number and quickly receive a reply with its most recent observation(s).

How to use WaterNow

- **Text Message (SMS)**

Send a text message to WaterNow@usgs.gov containing the USGS Site Number of the gage you want to query (optionally add parameter codes to customize your query). You will receive a response within a few minutes. All query options are listed below:

Text Message Content	Action	Example (click to enlarge)
SiteNumber	Query for flow and/or stage (if available; otherwise returns a list of available parameters)	
SiteNumber parameter	Query for a specific parameter (parameter codes are 5 digits; leading zeros, if any, are required)	

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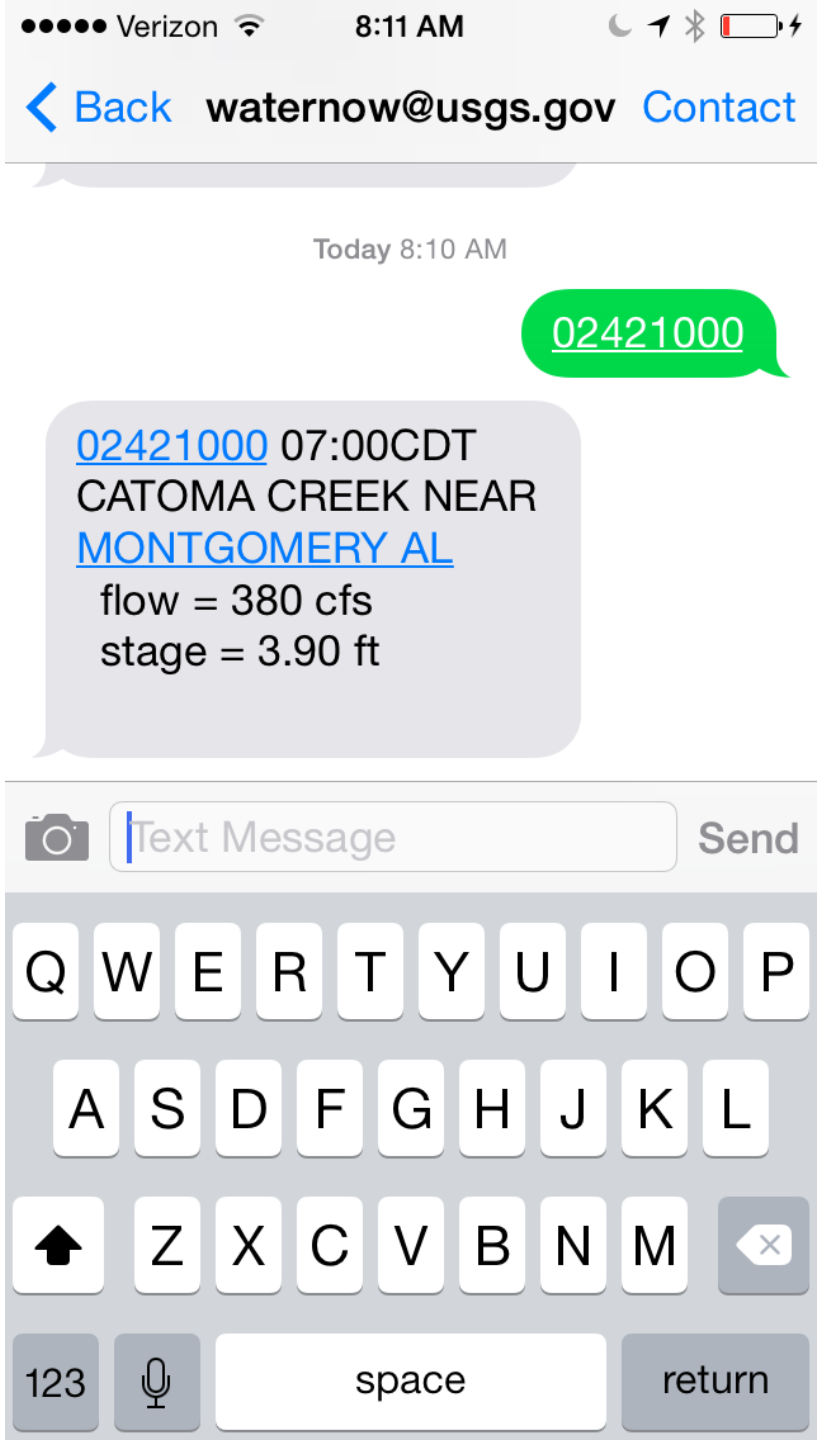
Verizon
8:11 AM
Back
waternow@usgs.gov
Contact
Today 8:10 AM
02421000
02421000 07:00CDT
CATOMA CREEK NEAR
MONTGOMERY AL
flow = 380 cfs
stage = 3.90 ft
Text Message
Send
Q W E R T Y U I O P
A S D F G H J K L
Z X C V B N M
123
space
return

National Weather Service
Advanced Hydrologic Prediction Service

Local weather forecast by "City, ST"
City, ST Go
Adjacent Areas:
Zoom Out
National Conditions
Rivers
Satellite
Climate
Observed Precip
Local Conditions
Warnings
Weather
Forecast
Radar
AHPS Documentation
User Guide
User Brochure
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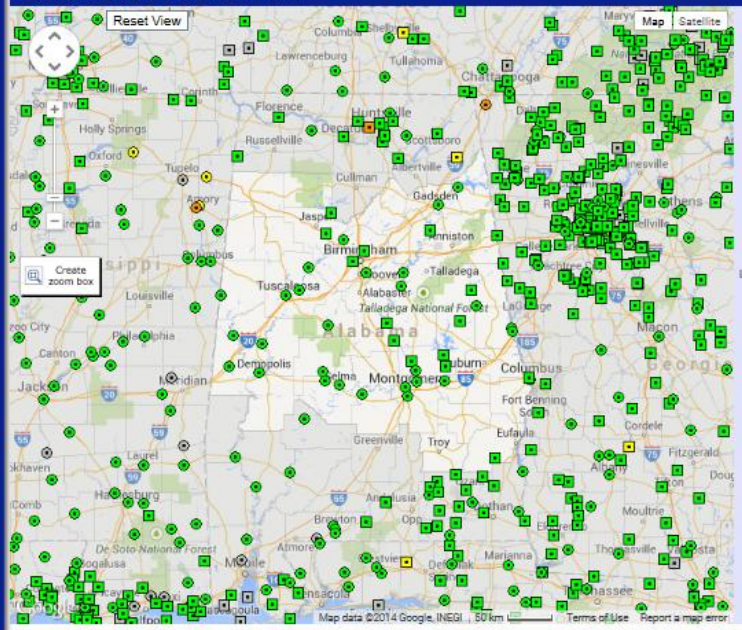
River Observations | River Forecasts | Experimental Long-Range Flood Risk | Precipitation | Download

Auto Refresh is OFF | Print this map | Permalink | BOOKMARK

629 total gauges | 3 gauges in flood



- Hydrograph Available
- Probability and Hydrograph Available
- Major Flooding
- Moderate Flooding
- Minor Flooding
- Near Flood Stage
- No Flooding
- Observation More Than 24 Hours Old
- Out of Service

Last map update: 10/14/2014 at 08:13:01 am CDT
10/14/2014 13:13:01 UTC
What is UTC time?
Disclaimer

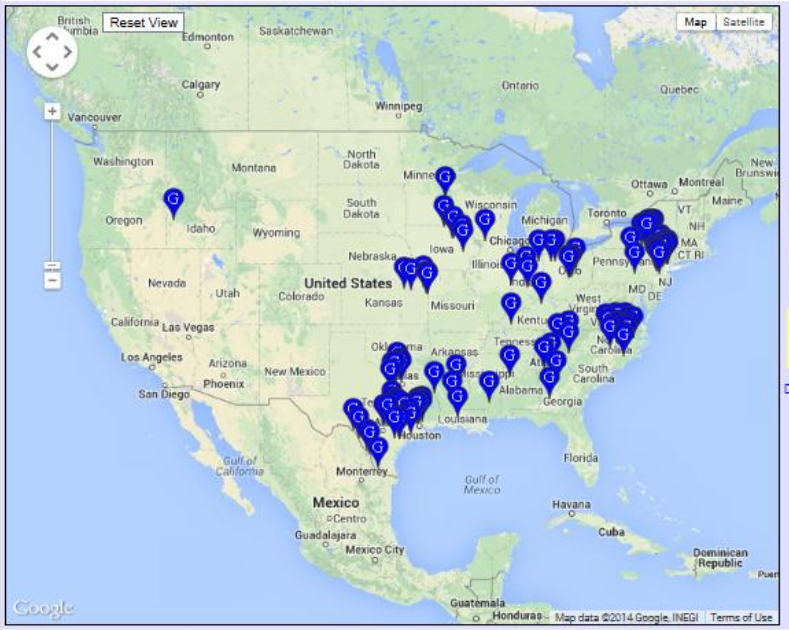
Map Overlays
- County Boundaries
- WFO Boundary
Reset Overlays

River Menus — Collapse

Tombigbee River (and Tributa	Cahaba River	Coosa River
Black Warrior River (and Tribu	Alabama River (and Tributarie	Tallapoosa River

Resources — Collapse

NOAA PARTNERED GUIDELINES FOR THE DEVELOPMENT OF ADVANCED HYDROLOGIC PREDICTION SERVICE FLOOD INUNDATION MAPPING



Latitude/Longitude Disclaimer: The gauge locations shown in the above map is the approximate location based on the latitude/longitude coordinates provided to the NWS by the gauge owner.

Inundation Mapping Locations

Austin/San Antonio, TX (EWX)

- ATIT2 - Onion Creek at US 183, TX
- BRTT2 - Colorado River (TX) at Bastrop, TX
- DLRT2 - Rio Grande at Del Rio, TX
- EPPT2 - Rio Grande at Eagle Pass, TX
- GETT2 - San Gabriel River at Georgetown South Fork, TX
- LGRT2 - Colorado River (TX) above La Grange, TX
- SEGT2 - Guadalupe River at Seguin, TX
- SELT2 - Cibolo Creek at Selma, TX
- SMIT2 - Colorado River (TX) near Smithville, TX

Binghamton, NY (BGM)

- BAIN8 - Susquehanna River at Bainbridge, NY
- BNGN8 - Susquehanna River at Binghamton, NY

http://water.weather.gov/ahps2/hydrograph.php?wfo=bmx&gage=toda1

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Rivers
Satellite
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cal Conditions
Warnings
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recast
Radar

HPS Documentation
User Guide
User Brochure

hat is AHPS?
Facts
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eedback
Ask Questions

WHEN FLOODED TURN AROUND DON'T DROWN

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USA.gov

National Observations | WFO Observations | Hydrograph

Weather Forecast Office Birmingham, AL — Southeast River Forecast Center

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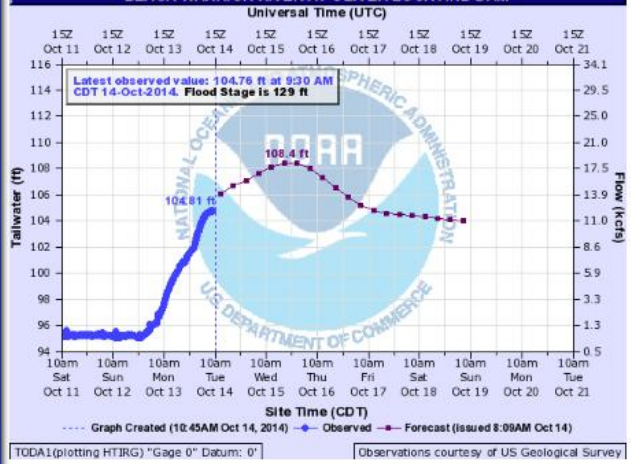
BLACK WARRIOR RIVER AT OLIVER LOCK AND DAM



TODA1(plotting HTIRG) "Gage 0" Datum: 0' | Observations courtesy of US Geological Survey

Printable Image
About this graph
Tabular Data (UTC)
Tabular Data (CDT)
XML
RSS
Datum: NAVD88
Metadata

NOTE: Forecasts for the Black Warrior River at Oliver Lock and Dam are issued routinely year-round.

Default Hydrograph

Return to Area Map

Upstream Gauge | Downstream Gauge

Flood Categories (in feet)

Major Flood Stage:	146
Moderate Flood Stage:	138
Flood Stage:	129
Action Stage:	122

Historical Crests
(1) 149.00 ft on 02/22/1961
(2) 148.30 ft on 03/29/1951

Zoom Level:16

National Weather Service
Advanced Hydrologic Prediction Service

Black Warrior River at Oliver Lock and Dam, AL (TODA1)

Data Type
- Inundation Levels
- Flood Categories
- Current/Forecast

Flood Stage Categories
- Major Flood
- Moderate Flood
- Minor Flood
- Near Flood

Inundation Feedback

WHEN FLOODED TURN AROUND DON'T DROWN

FLOODSMART.GOV

USA.gov

Weather Forecast Office Birmingham, AL

Southeast River Forecast Center

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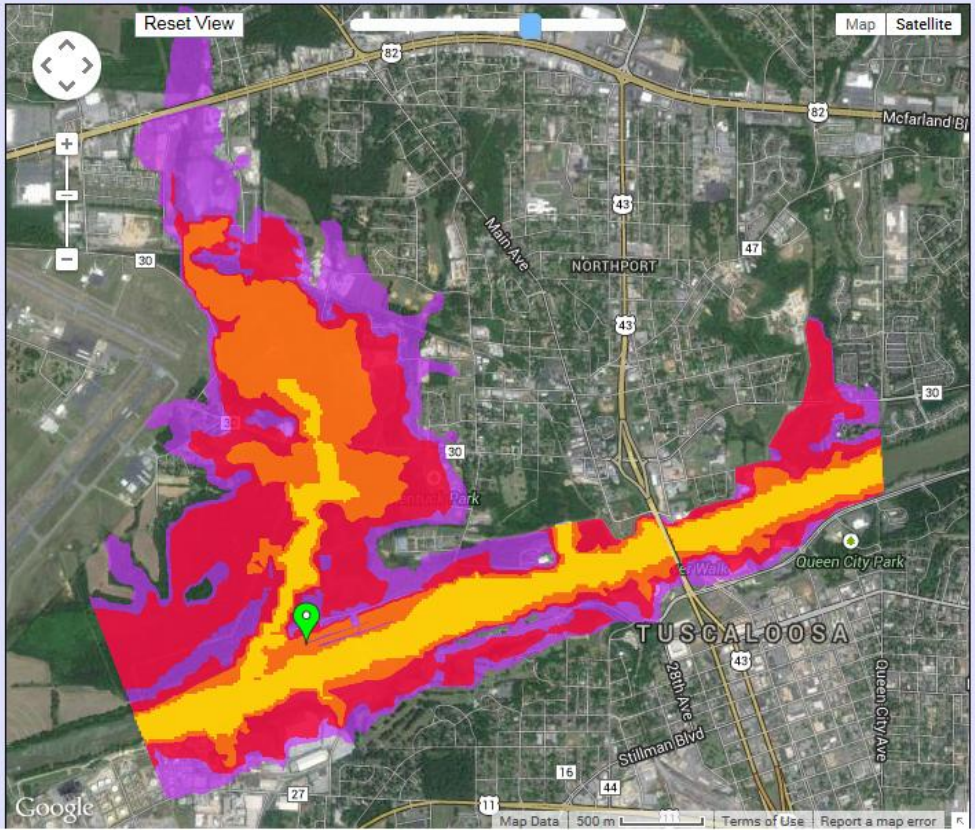

Stage	NAVD88
152.5	152.6
146.0	146.1
138.0	138.1
129.0	129.1
122.0	122.1

Gauge Location

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User Guide
Inundation Sites
Inundation Legend

User guide video on YouTube

Disclaimer

National Weather Service
Advanced Hydrologic Prediction Service

Black Warrior River at Oliver Lock and Dam, AL (TODA1)

Data Type
- Inundation Levels
- Flood Categories
- Current/Forecast

Currently:
95.3 ft at 10/10/2014 19:30:00 UTC

Highest Forecast:
96.0 ft at 10/12/2014 18:00:00 UTC

Inundation Feedback

WHEN FLOODED TURN AROUND DON'T DROWN

FLOODSMART.GOV
USA.gov

Weather Forecast Office Birmingham, AL

Southeast River Forecast Center

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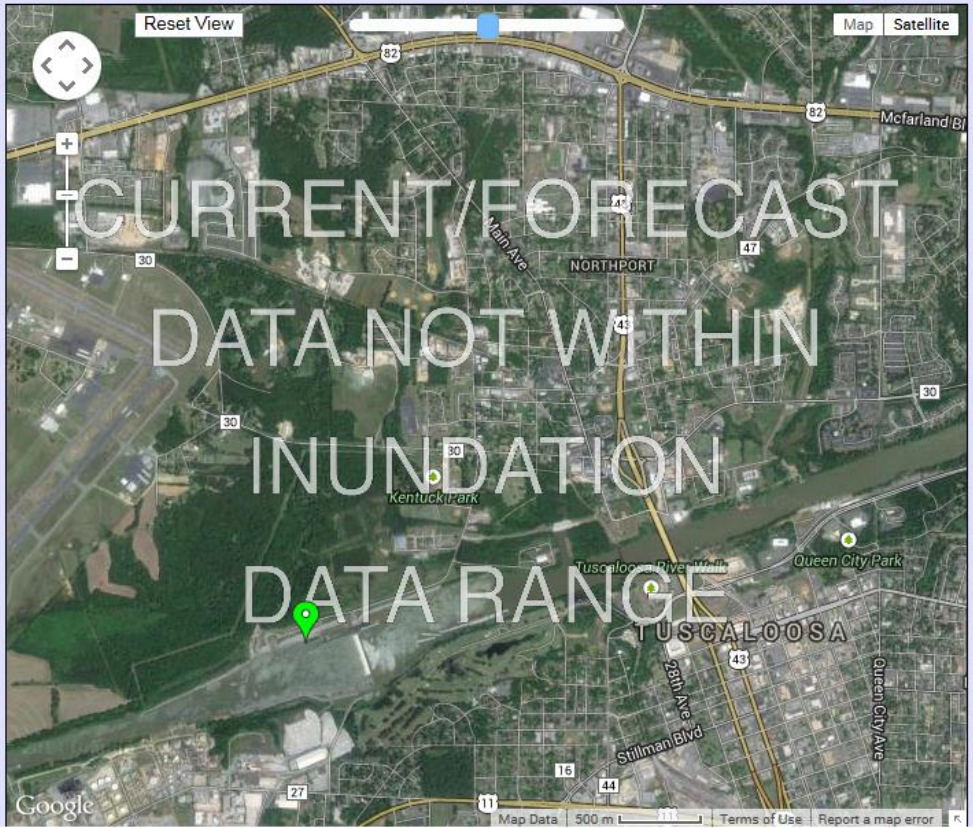

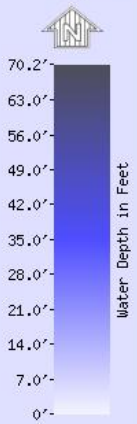

Gauge Location

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Black Warrior River at Oliver Lock and Dam, AL (TODA1)

Data Type
- Inundation Levels
- Flood Categories
- Current/Forecast

Inundation Levels

NAVD88	Stage
152.6*	152.5*
151.6*	151.5*
150.6*	150.5*
149.6*	149.5*
Record Crest: 149 ft	
148.6	148.5
147.6	147.5
146.6	146.5
Major Flooding Begins	
145.6	145.5
144.6	144.5
143.6	143.5
142.6	142.5
141.6	141.5
140.6	140.5
139.6	139.5
138.6	138.5
Moderate Flooding Begins	
137.6	137.5
136.6	136.5
135.6	135.5
134.6	134.5
133.6	133.5
132.6	132.5
131.6	131.5
130.6	130.5
129.6	129.5
Minor Flooding Begins	
128.6	128.5

* = Extended rating

Inundation Feedback

National Observations | Inundation Locations | Inundation Google

Weather Forecast Office Birmingham, AL — Southeast River Forecast Center

Hydrograph | River at a Glance | Download | Inundation Mapping | Probability Information

Print this map

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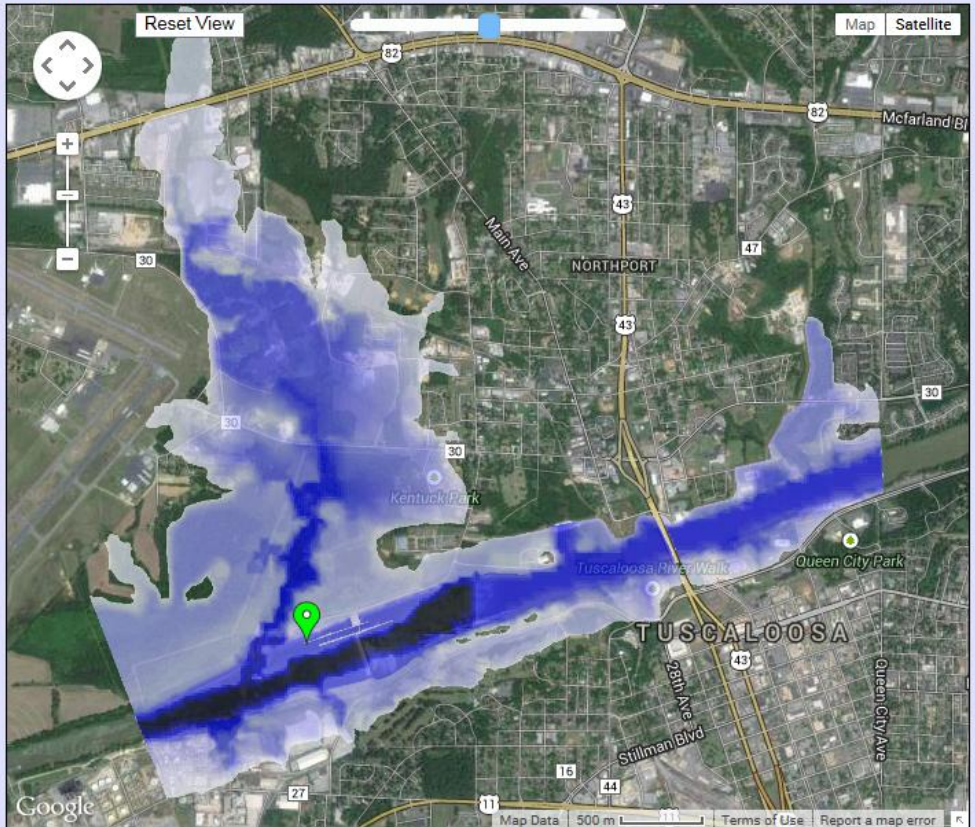

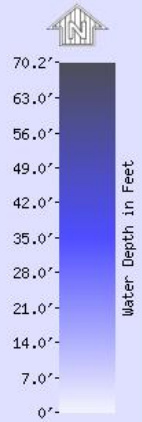

Gauge Location

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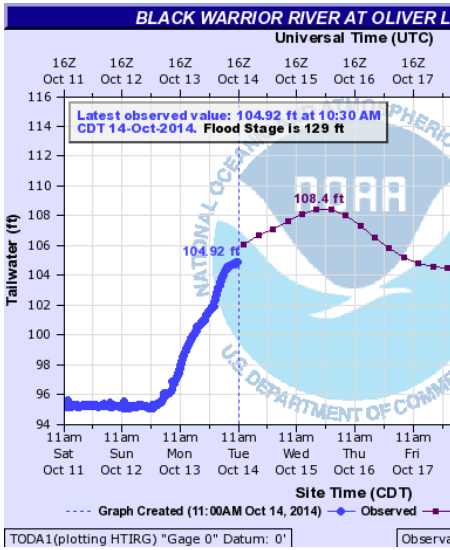
Inundation Legend

User guide video on YouTube



National Weather Service
Advanced Hydrologic Prediction Service

Black Warrior River at Oliver Lock and Dam, AL (TODA1)

Data Type
- Inundation Levels
- Flood Categories
- Current/Forecast

Inundation Levels

NAVD88	Stage
152.6*	152.5*
151.6*	151.5*
150.6*	150.5*
149.6*	149.5*
Record Crest: 149 ft	
148.6	148.5
147.6	147.5
146.6	146.5
Major Flooding Begins	
145.6	145.5
144.6	144.5
143.6	143.5
142.6	142.5
141.6	141.5
140.6	140.5
139.6	139.5
138.6	138.5
Moderate Flooding Begins	
137.6	137.5
136.6	136.5
135.6	135.5
134.6	134.5
133.6	133.5
132.6	132.5
131.6	131.5
130.6	130.5
129.6	129.5
Minor Flooding Begins	
128.6	128.5

* = Extended rating

Inundation Feedback

WHEN FLOODED TURN AROUND DON'T DROWN

FLOODSMART.GOV

USA.gov

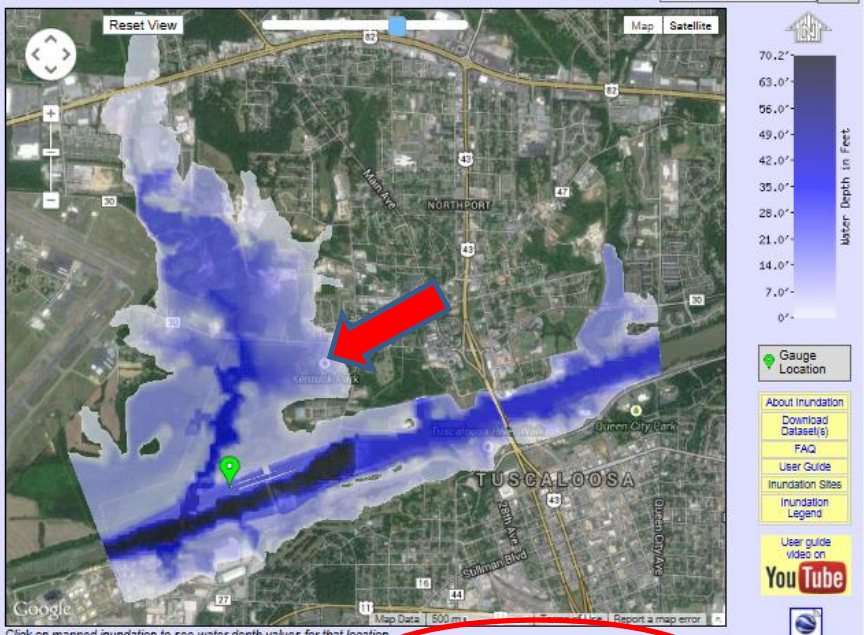
National Observations > Inundation Locations > Inundation Google

Weather Forecast Office Birmingham, AL — Southeast River Forecast Center

Hydrograph | River at a Glance | Download | Inundation Mapping | Probability Information

Print this map

Find your location by address or ZIP code: Go



Gauge Location

About Inundation
Download Dataset(s)
FAQ
User Guide
Inundation Sites
Inundation Legend

User guide video on YouTube

Disclaimer

Click on mapped inundation to see water depth values for that location.

Current Stage: 104.8 ft at 10/14/2014 14:30:00 UTC

Selected Inundation: NAVD88: 152.6* ft, stage: 152.5* ft

Mouse Location: Depth: 7.1 - 9.1 ft — Lat: 33.217689, Lon: -87.587614

Latitude/Longitude Disclaimer: The gauge location shown in the above map is the approximate location based on the latitude/longitude coordinates provided to the NWS by the gauge owner.

Gauge Information — Collapse

Map Overlays

152.6 Water Level ☑ 65%

Reset Overlays

Flood Categories (in feet)

Major Flood Stage 146

Graphical representation of flood inundation for NWS flood categories are based on steady state hydraulic modeling of water surface elevations for incremented discharges. Map shows approximate inundation areas for given water surface

Questions

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